

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE  
AGRICULTURAL EXPERIMENT STATION

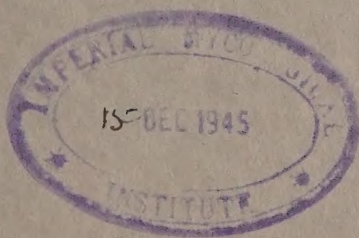
W. L. BLIZZARD, *Director*

LOUIS E. HAWKINS, *Vice Director*

---

**Host Index of Oklahoma Plant Diseases**

By D. A. PRESTON





OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE  
AGRICULTURAL EXPERIMENT STATION

W. L. BLIZZARD, *Director*

LOUIS E. HAWKINS, *Vice Director*

---

## Host Index of Oklahoma Plant Diseases

By D. A. PRESTON\*



---

\* At the time this material was prepared, Mr. Preston was Associate Mycologist, Emergency Plant Disease Prevention, United States Department of Agriculture. Acknowledgements for the use of specimens, records, and for criticisms are extended to K. Starr Chester, W. W. Ray, J. H. McLaughlin, D. E. Hoffmaster, H. I. Featherly, R. Stratton, H. W. Larsh, and the personnel of the Oklahoma State Department of Agriculture. He is now Assistant Plant Pathologist.



# CONTENTS

Introduction .....	5
Host Index .....	7
Index to Pathogens or Causal Agents .....	115
Index to Common Names of Hosts .....	160

---

*For use by gardeners and truck crop growers, the Oklahoma Agricultural Experiment Station has published Circular C-117, "Recognition and Control of Vegetable Diseases." Diseases of field crops are dealt with in Circular C-119, "Diseases of Field Crops in Oklahoma."*

*The host index was prepared to aid plant pathologists, crop and horticultural specialists, nursery and crop inspectors, county agents, and others who are called upon to help farmers and gardeners prevent loss of crops by plant diseases. The first step in control is to identify the organism or other cause responsible for the disease. This host index will assist in more rapid identification, by indicating what diseases are known to occur on plants in Oklahoma. Diseases of wild plants are included since in many cases the same diseases are found on both wild and cultivated hosts, and these wild host plants serve as a means of spreading the diseases.*

---

# Host Index of Oklahoma Plant Diseases

By D. A. PRESTON

## Introduction

This bulletin contains, in the form of a host index, all available information on the occurrence and distribution of the 2,110 plant diseases so far recorded in Oklahoma. This total represents only a small portion of the plant diseases which are known to occur wherever plants grow.

### Arrangement of Indexes

This publication is divided into three sections, each arranged alphabetically:

1. A host index in which each host plant is listed together with all the pathogens or causal agents known to occur in Oklahoma.

2. An index of pathogens or causal agents each of which is followed by the hosts upon which it has been reported in Oklahoma.

3. An index to the common names of the host plants, taken chiefly from *Standardized Plant Names*, 2nd edition, 1942.

The distribution of diseases, given by counties in the host index, merely indicates the known reports. In many cases the diseases of any given plant may actually have a more widespread distribution in the State than is shown by the reports at hand.

### History of the Oklahoma Host Index

The first contribution toward a host index to plant diseases in Oklahoma was compiled by Charles C. Brown, and was issued as Mimeographed Circular No. 33 of the Oklahoma Agricultural Experiment Station in 1939. The list contained a record of 819 diseases found on various plants. In 1941 a

revision of this circular appeared, arranged by Wayne Jackson, which brought the total number of plant disease records up to 1,171. These reports were prepared under the direction of K. Starr Chester as part of Project 317 ("Oklahoma Plant Disease Problems") of the Oklahoma Agricultural Experiment Station. A supplementary list of 467 plant diseases was published in 1943 as Mimeographed Circular No. M-104, raising the number of plant disease records in the State of Oklahoma to 1,638. Since the great demand for these mimeographed lists exhausted the supply shortly after publication, it seemed advisable to make the information available in printed form.

This bulletin contains an additional 536 records of plant diseases and their causal agents found in Oklahoma. Some records (64) from Circular No. 33 have been deleted because of inaccuracy in determinations or inconclusive data, thus bringing to 2,110 the total number of plant diseases so far recorded in Oklahoma.

## HOST INDEX

### ACALYPHA

- A. GRACILENS A. Gray, SLENDER COPPERLEAF.  
*Cercospora acalyphae* Peck, Leaf spot; Payne.
- A. OSTRYAEOFOLIA Riddell, HOPHORNBEAM COPPER-  
LEAF.  
*Cercospora acalyphae* Peck, Leaf spot; Payne.

### ACER

- A. NEGUNDO L., BOXELDER.  
*Macrophoma negundinis* Ell.& Ev., Leaf spot; Adair.  
*Valsaria allantospora* Ell.& Ev.; Payne.
- A. RUBRUM L., RED MAPLE.  
*Phyllosticta minima* (Berk.& Curt.) Ell.& Ev., Leaf  
spot; Le Flore, McCurtain.  
*Taphrina dearnessii* Jenk., Leaf blister; Le Flore.
- A. SACCHARINUM L., SILVER MAPLE.  
*Agrobacterium tumefaciens* (E.F.Sm.& Town.) Conn,  
Crown gall; Texas.  
*Phleospora aceris* (Lib.) Sacc., Leaf spot; Oklahoma.  
*Rhizoctonia solani* Kuhn, Damping off.
- A. SACCHARUM Marsh., SUGAR MAPLE.  
*Leptothyrium acerinum* Ktze., Leaf spot; McCurtain.
- A. SPP., MAPLE.  
*Agrobacterium tumefaciens* (E.F.Sm.& Town.) Conn,  
Crown gall.  
*Armillaria mellea* Vahl ex Fr., Mushroom root rot;  
Oklahoma.  
*Cercospora* sp., Leaf Spot; Payne.  
*Cytospora chrysosperma* Pers. ex Fr., Canker; Creek.  
*Fomes* sp., Heart rot; Payne.  
*Gloeosporium apocryptum* Ell.& Ev., Leaf blight;  
Payne.  
*Phoradendron flavescens* (Pursh) Nutt., Mistletoe;  
Haskell.  
*Polyporus gilvus* (Schw.) Fr., Wood rot; Payne.  
*Rhytisma acerinum* (Pers.) Fr., Tar leaf spot; Okla-  
homa.  
*Schizophyllum commune* Fr., Canker; Osage.

### ACHILLEA

- A. MILLEFOLIUM L., COMMON YARROW.  
*Gloeosporium* sp., Anthracnose; Payne.

## ACNIDA

- A. TAMARISCINA (Nutt.) Wood, WATERHEMP.  
*Albugo bliti* (Biv.) Kuntze, White rust; Kay, Payne.

## ACTINEA

- A. LINEARIFOLIA (Hook.) Kuntze, FINELEAF ACTINEA.  
*Cuscuta indecora* Choisy, Dodder; Greer.

## AEGILOPS

- A. CYLINDRICA Host, JOINTED GOATGRASS.  
*Ascochyta* sp., Leaf spot; Payne.  
*Puccinia graminis* Pers., Stem rust; Payne.  
*Uromyces graminicola* Burr., Rust; Payne.

## AESCULUS

- A. GLABRA Willd., OHIO BUCKEYE.  
*Guignardia aesculi* (Pk.) V.B.Stewart, Leaf blotch.  
A. HIPPOCASTANUM L., COMMON HORSECHESTNUT.  
*Guignardia aesculi* (Pk.) V.B.Stewart, Leaf blotch;  
Payne.  
A. OCTANDRA Marsh., YELLOW BUCKEYE.  
*Guignardia aesculi* (Pk.) V.B.Stewart, Leaf blotch.  
A. PAVIA L., RED BUCKEYE.  
*Phyllosticta paviae* Desm., Leaf spot; Tulsa.

## AGROPYRON

- A. CRISTATUM (L.) Gaertn., CRESTED WHEATGRASS.  
*Septoria* sp., Leaf spot; Woodward.  
A. DASYSTACHYUM (Hook.) Scribn., THICKSPIKE  
WHEATGRASS.  
*Puccinia graminis* Pers., Stem rust; Payne.  
A. ELONGATUM (Host) Beauv., TALL WHEATGRASS.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Payne.  
A. INERME (Scribn. & Smith) Rydb., BEARDLESS BLUE-  
BUNCH WHEATGRASS.  
*Puccinia graminis* Pers., Stem rust; Payne.  
A. INTERMEDIUM (Host) Beauv.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Payne.  
A. REPENS (L.) Beauv., QUACKGRASS.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Payne, Washita.  
A. SMITHII Rydb., BLUESTEM WHEATGRASS.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Osage, Payne.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Payne.

AGROPYRON—Continued.

*Puccinia graminis* Pers., Stem rust; Payne.

*Puccinia rubigo-vera agropyrina* (Erikss.) Arth., Leaf rust.

- A. TRACHYCAULUM (Link) Malte, SLENDER WHEAT-GRASS.

*Ascochyta agropyrina* (Fairm.) Trott., Leaf spot; Payne.

*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.

*Puccinia graminis* Pers., Stem rust; Payne, Woodward.

*Septoria* sp., Leaf spot; Woodward.

- A. TRICHOPHORON (Link) Richt., STIFFHAIR WHEAT-GRASS.

*Puccinia rubigo-vera tritici* (Erikss. & Henn.) Carl., Leaf rust; Payne.

AGROSTIS

- A. GIGANTEA Roth., REDTOP.

*Puccinia graminis* Pers., Stem rust.

- A. PALUSTRIS Huds., CREEPING BENTGRASS.

*Fusarium* sp., Root rot; Kiowa.

- A. PERENNANS (Walt.) Tuckerm., AUTUMN BENT-GRASS.

*Cercospora agrostidis* Atk., Leaf spot; Cleveland.

- A. SCABRA Willd., WINTER BENTGRASS.

*Claviceps purpurea* (Fr.) Tul., Ergot.

- A. SP., BENTGRASS.

*Rhizoctonia solani* Kuhn, Brown patch; Tulsa.

AILANTHUS

- A. ALTISSIMA (Mill.) Swingle, TREEOFHEAVEN AILANTHUS.

*Cercospora glandulosa* Ell. & Kell., Leaf spot; Payne.

*Nectria cinnabarina* Tode ex Fr., Dieback; Payne.

ALBIZZIA

- A. JULIBRISSIN Durazz., SILKTREE ALBIZZIA.

*Nectria cinnabarina* Tode ex Fr., Dieback; Beckham, Payne.

*Valsa* sp., Canker; Payne.

ALLIUM

- A. CEPÁ L., GARDEN ONION.

*Aspergillus niger* van Tiegh., Black mold; Payne.

*Botrytis allii* M.T.Munn, Neck rot; Oklahoma, Payne.

*Erwinia carotovora* (Jones) Winslow et al., Soft rot; general, with collection from Tulsa.

## ALLIUM—Continued.

- Fusarium malli* Taub., Pink rot; Payne.  
*Peronospora schleideni* Ung., Downy mildew.  
*Sclerotium rolfsii* Sacc., Southern wilt; Payne.  
*Stemphylium botryosum* Wallr., Leaf blight.  
*Urocystis cepulae* Frost, Smut.

## ALNUS

- A. INCANA (L.) Moench, SPECKLED ALDER.  
*Taphrina robinsoniana* Gies., Catkin hypertrophy;  
McCurtain.  
A. RUGOSA (Du Roi) Spreng., HAZEL ALDER.  
*Cuscuta compacta* Juss., Dodder; Le Flore.  
A. SP., ALDER.  
*Cuscuta compacta* Juss., Dodder; Le Flore.

## ALOPECURUS

- A. CAROLINIANUS Walt., CAROLINA FOXTAIL.  
*Sclerotrichum graminis* Fckl., Brown stripe; Payne.  
A. GENICULATUS L., WATER FOXTAIL.  
*Sclerotrichum graminis* Fckl., Brown stripe; Payne.

## ALTHAEA

- A. ROSEA (L.) Cav., HOLLYHOCK.  
*Cercospora althaeina* Sacc., Leaf spot; Payne.  
*Endophyllum tuberculatum* (Ell. & Kell.) Arth. &  
Fromme, Rust.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
Logan.  
*Puccinia malvacearum* Bert., Rust; general, with col-  
lections from Logan, Payne.  
*Septoria malvicola* Ell. & Mart., Leaf spot; Payne.  
A. SP.  
*Nectria cinnabarina* Tode ex Fr., Canker; Payne.

## AMARANTHUS

- A. RETROFLEXUS L., REDROOT AMARANTH.  
*Albugo bliti* (Biv.) Kuntze, White rust; Canadian,  
Choctaw, Payne.  
*Alternaria* sp.; Payne.  
A. SPINOSUS L., SPINY AMARANTH.  
*Albugo bliti* (Biv.) Kuntze, White rust; Payne.

## AMARYLLIS

## A. SPP., AMARYLLIS.

*Botrytis cinerea* Pers., Gray mold; Payne.

*Colletotrichum uliacearum* Ferraris, Anthracnose; Payne.

*Virus*, Mosaic; Payne.

## AMBROSIA

## A. ARTEMISIIFOLIA L., COMMON RAGWEED.

*Puccinia xanthii* Schw., Rust; Payne.

## A. PSILOSTACHYA DC., WESTERN RAGWEED.

*Cuscuta arvensis* Beyrich, Dodder; Payne.

*Cuscuta coryli* Engelm., Dodder; Beckham.

*Cuscuta cuspidata* Engelm., Dodder; Cleveland.

*Cuscuta indecora* Choisy, Dodder; Beckham.

## A. TRIFIDA L., GIANT RAGWEED.

*Cercospora arcti-ambrosiae* Halst., Leaf spot; Payne.

*Cuscuta cuspidata* Engelm., Dodder; Muskogee.

*Cuscuta* sp., Dodder; Texas.

*Erysiphe cichoracearum* DC., Powdery mildew; Ottawa, Rogers.

*Plasmopara halstedii* (Farl.) Berl. & De Toni, Downy mildew; Cherokee, Payne.

*Puccinia xanthii* Schw., Rust; Kay, Payne.

## A. SP., RAGWEED.

*Cuscuta obtusiflora* HBK., Dodder; Cleveland.

## AMORPHA

## A. CANESCENS Pursh, LEADPLANT AMORPHA.

*Uromyces amorphae* (Curt.) Schroet., Rust; Osage, Payne.

## A. FRUTICOSA L., INDIGOBUSH AMORPHA.

*Cylindrosporium passaloroides* (Wint.) Gilm. & Arch., Leaf spot; Payne.

*Uromyces amorphae* (Curt.) Schroet., Rust; Payne.

## AMPELOPSIS

## A. ARBOREA (L.) Koehne, PEPPERVINE.

*Cuscuta gronovii* Willd., Dodder; Muskogee.

## ANCHUSA

## A. MYOSOTIDIFLORA Lehm., HEARTLEAF BRUNNERA.

*Heterodera marioni* (Cornu) Goodey, Root knot; Oklahoma.

## ANDROPOGON

- A. **FURCATUS** Muhl., **BIG BLUESTEM**.  
*Cerebella andropogonis* Ces., Blackhead: False smut;  
 Carter, Lincoln, Pawnee, Payne, Pittsburg.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Carter.  
*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.  
*Phyllachora luteo-maculata* (Schw.) Orton, Black  
 spot; Payne.  
*Puccinia andropogonis* Schw., Leaf rust; Payne.  
*Puccinia tripsaci* Diet.& Holw., Leaf rust.  
*Septoria andropogonis* J.J.Davis, Leaf spot.  
*Sorosporium ellisii* Wint., Head smut; Osage, Payne.  
*Sphacelotheca occidentalis* (Seym.) Clinton, Kernel  
 smut; Payne.  
*Stagonospora ischaemi* Sacc.; Payne.
- A. **GLOMERATUS** (Walt.) B.S.P., **BUSHY BLUESTEM**.  
*Puccinia andropogonis* Schw., Leaf rust.
- A. **HALLII** Hack., **SAND BLUESTEM**.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Payne.  
*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.  
*Stagonospora ischaemi* Sacc.; Cleveland.
- A. **ISCHAEMUM** L., **EASTINDIES BLUESTEM**.  
*Cerebella andropogonis* Ces., Blackhead: False smut;  
 Payne.
- A. **SACCHAROIDES** Swartz, **SILVER BLUESTEM**.  
*Cerebella andropogonis* Ces., Blackhead: False smut;  
 Lincoln, Payne.  
*Helminthosporium* sp., Leaf spot; Payne.  
*Phyllachora luteo-maculata* (Schw.) Orton, Black  
 spot; Lincoln, Oklahoma, Payne, Seminole, Tulsa.  
*Ustilago* sp., Smut; Payne.
- A. **SCOPARIUS** Michx., **LITTLE BLUESTEM**.  
*Cerebella andropogonis* Ces., Blackhead: False smut;  
 Lincoln, Payne, Pittsburg.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Payne.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
 Anthracnose; Payne, Woodward.  
*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.  
*Phyllachora luteo-maculata* (Schw.) Orton, Black  
*Phyllachora luteo-maculata* (Schw.) Orton, Black  
 spot; Payne.  
*Puccinia andropogonis* Schw., Rust; Payne.  
*Puccinia ellisiana* Thum., Rust; Osage, Payne.  
*Sphacelotheca occidentalis* (Seym.) Clinton, Kernel  
 smut; Lincoln, Payne.

## ANDROPOGON—Continued.

- A. TERNARIUS Michx.  
*Cerebella andropogonis* Ces., Blackhead: False smut;  
 Payne, Pittsburg.  
*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Mayes.  
*Puccinia andropogonis* Schw., Leaf rust; Payne, Pittsburg.
- A. VIRGINICUS L., YELLOWSEDGE BLUESTEM:  
 BROOMSEDGE.  
*Puccinia andropogonis* Schw., Leaf rust.
- A. SP., BLUESTEM.  
*Erysiphe graminis* DC., Powdery mildew; Mayes.

## ANTENNARIA

- A. PLANTAGINIFOLIA (L.) Richards., PLANTAINLEAF  
 PUSSYTOES.  
*Albugo tragopogonis* (Pers.) S.F.Gray, White rust;  
 Payne.

## ANTHURIUM

- A. ANDRAEANUM Lind., FLAMINGO ANTHURIUM.  
*Gloeosporium minutum*, Anthracnose; Payne.
- A. ANDRAEANUM var. GIGANTEUM, GIANT FLAMINGO  
 ANTHURIUM.  
*Gloeosporium minutum*, Anthracnose; Payne.

## ANTIRRHINUM

- A. MAJUS L., COMMON SNAPDRAGON.  
*Botrytis* sp., Blight; Oklahoma.  
*Fusarium* sp., Wilt; Tulsa.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
 Lincoln, Tulsa.  
*Peronospora antirrhini* Schroet., Downy mildew;  
 Oklahoma.  
*Phytophthora cryptogea* Pethyb. & Laff., Damping  
 off; Oklahoma, Payne.  
*Puccinia antirrhini* Diet. & Holw., Rust; Payne.  
*Rhizoctonia solani* Kuhn, Damping off; Oklahoma.  
*Verticillium alboatrum* Reinke & Berth., Wilt;  
 Comanche.  
*Virus*, Ringspot; Payne.  
*Nonparasitic*, Fasciation; Payne.  
*Nonparasitic*, Tip blight; Oklahoma.

## APIUM

- A. GRAVEOLENS var. DULCE DC., GARDEN CELERY.  
*Cercospora apii* Fres., Early blight; Payne.  
*Septoria apii* (B.& C.) Chester, Late blight; general  
with collections from Creek, Payne.  
*Virus*, Celery mosaic; Payne.

## APLOPAPPUS

- A. CILIATUS (Nutt.) DC., ROSINWEED.  
*Cicinnobolus cesatii* DeBy., Parasitic on  
*Erysiphe cichoracearum* DC. on living leaves; Payne.  
*Cuscuta arvensis* Beyrich, Dodder; Pottawatomie.  
*Cuscuta cuspidata* Engelm., Dodder; Jackson,  
Pottawatomie.  
*Erysiphe cichoracearum* DC., Powdery mildew; Payne.  
*Septoria* sp., Leaf spot; Okmulgee, Payne.
- A. DIVARICATUS (Nutt.) A. Gray, GOLDENWEED.  
*Cuscuta cuspidata* Engelm., Dodder; Kiowa.

## APOCYNUM

- A. ANDROSAEMIFOLIUM L., SPREADING DOGBANE.  
*Cylindrosporium apocyni* Ell.& Ev., Leaf spot; Hughes.
- A. CANNABINUM L., HEMP DOGBANE.  
*Cylindrosporium apocyni* Ell.& Ev., Leaf spot; Payne.  
*Phyllosticta apocyni* Trel., Leaf spot; Payne.
- A. SIBIRICUM Jacq., PRAIRIE DOGBANE: INDIAN  
HEMP.  
*Puccinia seymouriana* Arth., Rust.

## AQUILEGIA

- A. SP., COLUMBINE.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
Tulsa.  
*Sclerotium rolfsii* Sacc., Southern wilt; Tulsa.

## ARABIS

- A. LAEVIGATA (Muhl.) Poir., SMOOTH ROCKCRESS.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust;  
Comanche.

## ARACHIS

- A. HYPOGAEA L., PEANUT.  
*Botrytis* sp.  
*Cercospora arachidicola* Hori, Leaf spot; Hughes,  
Payne.

## ARACHIS—Continued.

*Cercospora personata* (Berk.& Curt.) Ell.& Ev., Leaf spot; Carter, Hughes, Johnston, Okfuskee, Okmulgee, Payne, Pontotoc.

*Diplodia frumenti* Ell.& Ev., Stem rot; Okmulgee, Payne.

*Fusarium* sp., Root rot; Okfuskee.

*Rhizoctonia solani* Kuhn, Root rot; general with collections from Carter, Hughes, Johnston, Okfuskee, Okmulgee.

*Sclerotium bataticola* Taub., Charcoal rot; Okmulgee.

*Sclerotium rolfsii* Sacc., Stem rot; Choctaw.

## ARGEMONE

## A. MEXICANA L., MEXICAN PRICKLEPOPPY.

*Septoria argemones* Tharp, Leaf spot; Cherokee, Garfield.

## ARISAEMA

## A. ATRORUBENS (Ait.) Blume., COMMON JACKINTHE-PULPIT.

*Uromyces caladii* (Schw.) Farl., Rust; Adair.

## A. DRACONTIUM (L.) Schott, DRAGONROOT JACKINTHE-PULPIT.

*Uromyces caladii* (Schw.) Farl., Rust; Delaware, Muskogee, Osage, Payne.

## ARISTIDA

## A. BASIRAMEA Engelm., FORKTIP THREEAWN.

*Uromyces peckianus* Farl., Rust.

## A. CURTISSII (A. Gray) Nash, CURTISS THREEAWN.

*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Adair.

*Uromyces peckianus* Farl., Rust; Payne.

## A. DESMANTHA Trin.&amp; Rupr., CURLY THREEAWN.

*Uromyces peckianus* Farl., Rust.

## A. DICHOTOMA Michx., CHURCHMOUSE THREEAWN.

*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Adair.

## A. LONGESPICA Poir., SLIMSPIKE THREEAWN.

*Tilletia oklahomae* Zundel, Kernel smut; Oklahoma.

*Uromyces peckianus* Farl., Rust; Cherokee.

## A. OLIGANTHA Michx., PRAIRIE THREEAWN.

*Uromyces peckianus* Farl., Rust; Logan, Payne.

## A. PURPURASCENS Poir., ARROWFEATHER THREE-AWN.

*Hendersonia effusa* Berk.& Curt.; Delaware.

## A. PURPUREA Nutt., PURPLE THREEAWN.

*Gloeosporium* sp., Leaf & stem spot; Payne.

## ARMORACIA

- A. RUSTICANA Gaertn., HORSERADISH.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust.  
*Erwinia carotovora* (Jones) Winslow et al., Soft rot;  
Grant.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
Payne.

## ARONIA

- A. SP., CHOKEBERRY.  
*Phyllosticta arbutifolia* Ell. & Mart., Leaf spot; Oklahoma.

## ARTEMISIA

- A. GNAPHALODES Nutt., CUDWEED SAGEBRUSH.  
*Puccinia absinthii* (Hedw.) DC., Rust.  
A. LUDOVICIANA Nutt., LOUISIANA SAGEBRUSH.  
*Lasiosphaeria* sp., Leaf spot; Payne.  
*Puccinia millefolii* Fckl., Rust.  
A. MEXICANA Willd., MEXICAN SAGEBRUSH.  
*Cuscuta arvensis* Beyrich, Dodder; Muskogee.

## ARUNDINARIA

- A. GIGANTEA (Walt.) Chapm., GIANT CANE.  
*Didymella eumorpha* (Berk. & Curt.) Sacc.; McCurtain.  
*Puccinia arundinariae* Schw., Leaf rust; McCurtain.

## ARUNDO

- A. DONAX L., GIANTREED.  
*Scolecotrichum maculicola* Ell. & Kell., Leaf spot;  
Payne.

## ASCLEPIAS

- A. SPECIOSA Torr., SHOWY MILKWEED.  
*Cercospora clavata* (Gerard) Cke., Leaf spot; Payne.  
A. TUBEROSA L., BUTTERFLY MILKWEED.  
*Puccinia bartholomaei* Diet., Rust.

## ASCLEPIODORA

- A. DECUMBENS (Nutt.) A. Gray, SPIDER ANTHELOPE-HORN.  
*Phyllosticta tuberosa* Ell. & Mart., Leaf spot; Murray.  
*Puccinia bartholomaei* Diet., Rust.

## ASCLEPIODORA—Continued.

- A. VIRIDIS (Walt.) A.Gray, OBLONGLEAVED MILK-WEED.

*Alternaria fasciculata* (Cke.& Ell.) Jones & Grout,  
Leaf spot; Payne.

*Puccinia bartholomaei* Diet., Rust; Murray, Payne.

## ASPARAGUS

- A. OFFICINALIS L., GARDEN ASPARAGUS.

*Alternaria fasciculata* (Cke.& Ell.) Jones & Grout,  
Leaf spot; Payne.

*Cercospora asparagi* Sacc., Leaf spot; Payne.

*Erwinia carotovora* (Jones) Winslow et al., Soft rot;  
general.

*Puccinia asparagi* DC., Rust; Logan, Payne.

## ASPIDISTRA

- A. ELATIOR Blume, COMMON ASPIDISTRA.

*Colletotrichum omnivorum* Hals., Anthracnose; Payne.

## ASTER

- A. DRUMMONDII Lindl., DRUMMOND ASTER.

*Puccinia asteris* Duby, Rust; Payne.

*Septoria asterina* Tharp, Leaf spot; Payne.

- A. ERICOIDES L., HEATH ASTER.

*Cuscuta indecora* Choisy, Dodder; McClain.

*Erysiphe cichoracearum* DC., Powdery mildew; Payne.

- A. SALICIFOLIUS Ait., WILLOWLEAF ASTER.

*Erysiphe cichoracearum* DC., Powdery mildew; Payne.

## ASTRAGALUS

- A. CICER L.

*Cercospora astragali* Woronichin, Leaf spot; Payne.

- A. MEXICANUS DC., GROUND PLUM.

*Cercosporidium* sp., Leaf spot; Choctaw.

## AVENA

- A. SATIVA L., COMMON OAT.

*Colletotrichum graminicolum* (Ces.) G.W.Wils., An-  
thrachnose; Choctaw, Grady, Payne.

*Gibberella zeae* (Schw.) Petch, Scab; Payne.

*Helminthosporium sativum* Pam., King, & Bakke, Foot  
with collection from Delaware.

*Helminthosporium sativum* Pam., King, & Bakke, Foot  
rot; Payne.

*Pseudomonas coronafaciens* (Ell.) Stapp, Halo blight;  
Comanche, Delaware, Payne.

## AVENA—Continued.

*Puccinia coronata* Cda., Crown rust; general with collections from Canadian, Choctaw, Delaware, Garfield, Kingfisher, Payne.

*Puccinia graminis avenae* Eriks. & Henn., Stem rust; general with collections from Bryan, Delaware, Garfield, Payne.

*Ustilago avenae* (Pers.) Rostr., Loose smut; general with collections from Payne, Wagoner.

*Ustilago kollerii* Wille, Covered smut; general.

*Nonparasitic*, Blast.

## AXONOPUS

- A. COMPRESSUS (Swartz) Beauv., TROPICAL CARPET-GRASS.

*Stagonospora* sp.; Caddo.

## BACOPA

- B. SP., WATERHYSSOP.

*Cuscuta arvensis* Beyrich, Dodder; Washington.

## BAPTISIA

- B. AUSTRALIS (L.) R. Brown, BLUE WILDINDIGO.

*Puccinia andropogonis onobrychidis* (Burr.) Arth., Rust; Payne.

- B. BRACTEATA (Muhl.) Ell., CREAM WILDINDIGO.

*Puccinia andropogonis onobrychidis* (Burr.) Arth., Rust; Payne.

## BELAMCANDA

- B. CHINENSIS (L.) DC., BLACKBERRY LILY.

*Heterosporium iridis* (Faut. & Roum.) Jacq., Leaf spot; Payne.

## BERBERIS

- B. MENTORENSIS L.M. Ames, MENTOR BARBERRY.

*Phyllosticta berberidis* Rabh., Leaf spot; Payne.

- B. THUNBERGII DC., JAPANESE BARBERRY.

*Phyllosticta japonica* Thum., Leaf Spot; Payne.

## BETA

- B. VULGARIS L., COMMON BEET.

*Cercospora beticola* Sacc., Leaf spot; Cherokee, Payne, Seminole, Tulsa.

*Heterodera marioni* (Cornu) Goodey, Root knot; Beckham, Ellis, Harmon, Seminole.

## BETA—Continued.

*Phoma betae* (Oud.) Frank, Damping off; Seminole.  
*Septoria betae* West., Leaf spot; Payne.

- B. VULGARIS var. CICLA L., SWISS CHARD.  
*Cercospora beticola* Sacc., Leaf spot; Payne.

## BETULA

- B. NIGRA L., RIVER BIRCH.  
*Gloeosporium betularum* Ell.& Mart., Leaf spot; Le Flore.  
*Phyllosticta betulina* Sacc., Leaf spot; Tulsa.  
*Polyporus hirsutus* Wulf ex Fr., Wood rot; Atoka.  
*Stereum rameale* Schw., Trunk rot; Atoka.
- B. PAPYRIFERA Marsh., PAPER BIRCH.  
*Gloeosporium betularum* Ell.& Mart., Leaf spot; Muskogee.

## BOLTONIA

- B. DIFFUSA Ell., PANICLED BOLTONIA.  
*Guidnardia boltoniae* Dearn.& Barth., Anthracnose; Cotton.  
*Macrophoma boltoniae* Dearn.; Cotton.  
*Phoma boltoniae* Dearn.; Cotton.  
*Septoria erigerontis* var. *boltoniae* Webber, Leaf spot; Muskogee.
- B. LATISQUAMA A.Gray, VIOLET BOLTONIA.  
*Septoria erigerontis* var. *boltoniae* Webber, Leaf spot; Craig.

## BOUTELLOUA

- B. CURTIPENDULA (Michx.) Torr., SIDEOATS GRAMA.  
*Ascochyta* sp., Leaf spot; Payne.  
*Phyllachora boutelouae* Rehm, Black spot; Payne.  
*Puccinia bartholomaei* Diet., Rust; Carter, Okfuskee, Payne, Stephens.  
*Puccinia boutelouae* (Jennings) Holw., Rust; Carter, Osage, Pawnee, Payne.  
*Puccinia vexans* Farl., Rust; Woodward.  
*Sclerotium bataticola* Taub., Charcoal rot; Oklahoma.  
*Septoria* sp., Leaf spot; Woodward.  
*Stagonospora arenaria* Sacc., Leaf spot; Payne.
- B. GRACILIS (HBK.) Lag., BLUE GRAMA.  
*Ascochyta* sp., Leaf spot; Payne.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Payne.  
*Septoria* sp., Leaf spot; Payne.  
*Ustilago boutelouae* Kell.& Swingle, Smut; Garfield, Kiowa, Osage, Payne, Woodward.

## BOUTELOUA—Continued.

- B. HIRSUTA Lag., HAIRY GRAMA.  
*Ustilago boutelouae* Kell. & Swingle, Smut; Payne.
- B. RIGIDISETA (Steud.) Hitchc., TEXAS GRAMA.  
*Ascochyta* sp., Leaf spot; Payne.

## BRASSICA

- B. JUNCEA (L.) Cosson, MUSTARD.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust; Payne, Seminole.  
*Erwinia carotovora* (Jones) Winslow et al., Soft rot; Oklahoma.
- B. OLERACEA var. BOTRYTIS L., CAULIFLOWER.  
*Alternaria circinans* (Berk. & Curt.) Bolle, Black leaf spot; Payne.  
*Xanthomonas campestris* (Pam.) Dowson, Black rot; general with collections from Alfalfa, Tulsa.
- B. OLERACEA var. CAPITATA L., CABBAGE.  
*Alternaria circinans* (Berk. & Curt.) Bolle, Black leaf spot; McCurtain, McIntosh, Payne, Tulsa.  
*Erwinia carotovora* (Jones) Winslow et al., Soft rot; general with collection from Seminole.  
*Fusarium oxysporum* f. *conglutinans* (Wr.) Snyder & Hansen, Yellows; general with collections from Cleveland, Kay, Lincoln, Logan, Muskogee, Payne, Seminole.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Oklahoma.  
*Peronospora parasitica* (Pers.) Fr., Downy mildew; McCurtain, McIntosh, Muskogee, Tulsa.  
*Phoma lingam* (Tode) Desm., Black leg; Payne, Seminole.  
*Plasmodiophora brassicae* Wor., Club root.  
*Xanthomonas campestris* (Pam.) Dowson, Black rot; general with collections from McIntosh, Payne, Seminole.
- B. RAPA L. TURNIP.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust.  
*Cercospora albomaculans* (Ell. & Ev.) Sacc., Leaf spot; general with collection from Payne.  
*Colletotrichum higginsianum* Sacc., Leaf spot; Seminole.  
*Erwinia carotovora* (Jones) et al., Wet rot; Soft rot; Rogers.  
*Erysiphe polygoni* DC., Powdery mildew; Seminole.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Logan, Tulsa.

## BRASSICA—Continued.

- B. SP.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust;  
 Okmulgee.

## BROMUS

- B. CARINATUS Hook. & Arn., MOUNTAIN BROME.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
 Anthracnose; Payne.  
*Septoria bromi* Sacc., Leaf spot; Payne.
- B. CATHARTICUS Vahl, RESCUE BROME.  
*Erysiphe graminis* DC., Powdery mildew; Payne.  
*Ustilago bullata* Berk., Head smut; Alfalfa, Garfield.
- B. COMMUTATUS Schrad., HAIRY BROME.  
*Ascochyta* sp., Leaf spot; Payne.  
*Phomopsis* sp., Payne.  
*Puccinia graminis* Pers., Stem rust; Payne.  
*Puccinia rubigo-vera agropyri* (Erikss.) Arth., Leaf  
 rust; Payne.  
*Septoria bromi* Sacc., Leaf spot; Grady, Payne.
- B. INERMIS Leyss., SMOOTH BROME.  
*Ascochyta* sp., Leaf spot; Payne.  
*Helminthosporium leersii* Atk., Leaf spot; Payne.  
*Phyllosticta* sp., Leaf spot; Payne.  
*Ustilago bullata* Berk., Head smut; Garfield, Oklahoma.
- B. PURGANS L., CANADA BROME.  
*Ascochyta* sp., Leaf spot; Comanche.  
*Cercospora* sp., Leaf spot; Payne.  
*Septoria bromi* Sacc., Leaf spot; Payne.
- B. SECALINUS L., CHESS BROME.  
*Puccinia graminis* Pers., Stem rust; Payne.  
*Septoria bromi* Sacc., Leaf spot; Canadian, Comanche.
- B. TECTORUM L., CHEATGRASS BROME.  
*Pleospora* sp., Leaf spot; Payne.
- B. TEXENSIS (Shear) Hitchc., TEXAS BROME.  
*Septoria bromi* Sacc., Leaf spot; Choctaw.
- B. SP., BROME.  
*Septoria nodorum* Berk., Glume blotch; Payne.

## BROUSSONETIA

- B. PAPYRIFERA (L.) Vent., COMMON PAPERMUL-  
 BERRY.  
*Nectria cinnabarina* Tode ex Fr., Dieback; Murray.

## BUCHLOE

- B. DACTYLOIDES (Nutt.) Engelm., BUFFALOGRASS.  
*Anguillulina agrostis* (Steinburg) Goodey, Gall  
 nematode; Payne, Woodward.

## BUCHLOE—Continued.

- Cercospora seminalis* Ell.& Ev., Seed blight; Payne.  
*Erysiphe graminis* DC., Powdery mildew; Payne.  
*Helminthosporium turcicum* Pass., Leaf blight; Payne.  
*Phyllachora boutelouae* Rehm, Black spot; Payne.  
*Puccinia kansensis* Ell.& Barth., Rust; Payne.

## BUMELIA

- B. LANUGINOSA (Michx.) Pers., GUM BUMELIA:  
WOOLYBUCKET BUMELIA.

*Phyllosticta bumeliifolia* Heald & Wolf, Leaf spot;  
Adair, Cherokee, Kingfisher, Murray, Muskogee,  
Payne, Pittsburg.

## BUXUS

- B. SEMPERVIRENS L., COMMON BOX.

*Phoma conidiogena* Schnegg, Leaf tip blight;  
Oklahoma.

## CACALIA

- C. TUBEROSA Nutt., INDIAN PLANTAIN.

*Septoria cacaliae* Ell.& Kell., Leaf spot; Pawnee.

## CALAMOVILFA

- C. GIGANTEA (Nutt.) Scribn.& Merr., BIG SANDREED.  
*Ascochyta* sp., Anthracnose; Payne.

*Puccinia amphigena* Diet., Rust; Logan, Woods.

- C. LONGIFOLIA (Hook.) Scribn., PRAIRIE SANDREED.

*Puccinia amphigena* Diet., Rust.

## CALLICARPA

- C. AMERICANA L., AMERICAN BEAUTYBERRY:  
FRENCH MULBERRY.

*Cercospora callicarpae* Cke., Leaf spot; Le Flore, Payne.

- C. DICHOTOMA (Lour.) K.Koch, PURPLE BEAUTY-  
BERRY.

*Didymella* sp.; Payne.

## CALLIRHOE

- C. DIGITATA Nutt., FINGER POPPYMALLOW.

*Puccinia schedonnardi* Kell.& Swingle, Rust.

- C. INVOLUCRATA (T.& G.) Gray, LOW POPPYMALLOW.

*Endophyllum tuberculatum* (Ell.& Kell.) Arth. &  
Fromme, Rust; Cleveland.

*Phyllosticta* sp., Leaf spot; Murray.

*Puccinia schedonnardi* Kell.& Swingle, Rust.

## CALLISTEPHUS

- C. CHINENSIS (L.) Nees, COMMON CHINA-ASTER.  
*Rhizoctonia solani* Kuhn, Root rot; Muskogee.

## CAMELINA

- C. MICROCARPA Andrz., LITTLEPOD FALSEFLAX.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust;  
Garfield, Logan.
- C. SATIVA (L.) Crantz, BIGSEED FALSEFLAX.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust;  
Kingfisher.

## CAMELLIA

- C. JAPONICA L., COMMON CAMELLIA.  
*Hendersonia maculans* (Cda.) Lev.; Oklahoma.  
*Macrosporium camelliae* Cke. & Mass., Leaf spot;  
Oklahoma.

## CANNA

- C. INDICA L., INDIA CANNA.  
*Bacterium cannae* Bryan, Bacterial bud blight; Beck-  
ham.

## CAPSELLA

- C. BURSA-PASTORIS (L.) Medic., SHEPHERDSPURSE.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust;  
Kay, Logan, Payne.  
*Peronospora parasitica* (Pers.) Fr., Downy mildew;  
Payne.

## CAPSICUM

- C. FRUTESCENS L., PEPPER.  
*Alternaria solani* (Ell. & Mart.) Jones & Grout, Fruit  
rot; general with collections from Payne, Woodward.  
*Bacterium solanacearum* E. F. Sm., Bacterial wilt;  
Payne.  
*Cercospora capsici* Heald & Wolf, Leaf & fruit spot;  
Creek, Tulsa.  
*Fusarium* sp., Fruit rot; general with collections from  
Payne, Woodward.  
*Glomerella cingulata* (Ston.) Spauld. & Schrenk,  
Anthracnose; Payne.  
*Xanthomonas vescicatoria* (Doidge) Dowson, Bacterial  
leaf spot; Payne, Tulsa.  
*Solanum virus* 2, Mosaic; Payne.

## CARAGANA

- C. ARBORESCENS Lam., SIBERIAN PEASHRUB.  
*Agrobacterium rhizogenes* (Riker et al.) Conn, Hairy root.

## CAREX

- C. BICKNELLII Britton, BICKNELL SEDGE.  
*Puccinia extensicola erigerontis* Arth., Rust.
- C. GRAVIDA Bailey.  
*Colletotrichum* sp.  
 =( *Vermicularia caricina* (Ell. & Ev.), Anthracnose;  
 Cimarron.  
*Puccinia extensicola erigerontis* Arth., Rust; Kiowa.
- C. VULPINOIDEA Michx., FOX SEDGE.  
*Puccinia extensicola erigerontis* Arth., Rust.

## CARPINUS

- C. CAROLINIANA Walt., AMERICAN HORNBEAM.  
*Pezicula carpinea* (Pers.) Tul., Bark canker; McCurtain.  
*Phyllosticta* sp., Leaf spot; Delaware.

## CARTHAMUS

- C. TINCTORIUS L., SAFFLOWER.  
*Septoria* sp., Leaf spot; Payne.

## CARYA

- C. ALBA (L.) K.Koch, MOCKERNUT HICKORY.  
*Clitocybe parasitica* Wilcox, Root rot.
- C. CORDIFORMIS (Wang.) K.Koch, BITTERNUT HICKORY.  
*Diplodia caryogena* Ell. & Ev., Leaf spot; Payne.  
*Sphaeropsis linearis* Pk., Leaf spot; Payne.
- C. GLABRA (Mill.) Sweet, PIGNUT HICKORY.  
*Gnomonia caryae* Wolf, Anthracnose.
- C. ILLINOENSIS (Wang.) K.Koch, PECAN.  
*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; general with collection from Oklahoma.  
*Cercospora fusca* Rand, Brown leaf spot; Johnston, Muskogee, Payne.  
*Cercospora halstedii* Ell. & Ev., Leaf blotch; Payne.  
*Cercospora caryigena* (Ell. & Ev.) Hohn., Downy spot; Carter, Jefferson, Johnston, Lincoln, Okfuskee, Payne, Tulsa, Washington.  
*Cladosporium effusum* (Wint.) Dem., Scab; Bryan, Carter, Muskogee, Okfuskee, Oklahoma, Okmulgee, Payne, Pottawatomie, Wagoner.

## CARYA—Continued.

*Elsinoe randii* Jenkins & Bit., Nursery blight; Carter, Lincoln, Payne.

*Glomerella cingulata* (Ston.) Spauld. & Schrenk, Pink rot; Anthracnose; Oklahoma.

*Heterodera marioni* (Cornu) Goodey, Root knot; Tulsa.

*Leptothyrium nervisedum* Cole, Vein spot; Carter, Jefferson, Johnston, Muskogee, Washington.

*Mycosphaerella caryigena* Demaree & Cole, Downy spot; Muskogee, Okmulgee.

*Myrosporum* sp., Leaf spot; Payne.

*Phoma* sp., Blight; Grady, Payne.

*Phoradendron flavescens* (Pursh) Nutt., Mistletoe; general.

*Schizophyllum commune* Fr., Heart rot; Payne.

*Virus*, Bunch disease.

*Nonparasitic*, Rosette; general with collections from Payne, Wagoner.

## C. OVATA (Mill.) K.Koch, SHAGBARK HICKORY.

*Phyllosticta caryae* Pk., Leaf spot; Murray.

*Sphaeropsis linearis* Pk., Leaf spot; Le Flore.

## C. TEXANA C. DC., BLACK HICKORY: BITTER PECAN.

*Microstroma juglandis* (Bereng.) Sacc., Leaf spot; Payne.

## CASTANEA

## C. PUMILA (L.) Mill., ALLEGANY CHINKAPIN.

*Marssonina ochroleuca* (B. & C.) Humph., Leaf spot; Payne.

*Phytophthora cambivora* (Petri) Buis., Root rot; Le Flore.

## C. SP., CHESTNUT.

*Marssonina ochroleuca* (B. & C.) Humph., Leaf spot; Payne.

## CATALPA

## C. BIGNONIOIDES Walt., SOUTHERN CATALPA.

*Cercospora catalpae* Wint., Leaf spot; Stephens.

## C. SPECIOSA Warder, NORTHERN CATALPA.

*Alternaria catalpae* (Ell. & Mart.) Parker, Leaf spot; Payne.

*Heterodera marioni* (Cornu) Goodey, Root knot; Tulsa.

*Phyllosticta catalpae* Ell. & Mart., Leaf spot; Payne.

*Sclerotium bataticola* Taub., Charcoal rot; Payne.

*Sporidesmium capsularum* Thum.; Payne.

## CELOSIA

- C. ARGENTEA L., FEATHER COCKSCOMB.  
*Cercospora celosiae* Sydow, Leaf spot; Payne.  
C. SP., COCKSCOMB,  
*Fusarium* sp., Wilt; Garfield, Kiowa.

## CELTIS

- C. OCCIDENTALIS L., COMMON HACKBERRY.  
*Cercospora celtidis* (Ell. & Kell.) Davis, Leaf spot; Oklahoma, Payne.  
*Cylindrosporium defoliatum* Heald & Wolf, Leaf blight; Payne.  
*Phyllosticta celtidis* Ell. & Ev., Leaf spot; Payne.  
*Phymototrichum omnivorum* (Shear) Dug., Root rot.  
*Valsa celtidis* Cke., Wood rot; Payne.  
C. RETICULATA Torr., NETLEAF HACKBERRY.  
*Cylindrosporium defoliatum* Heald & Wolf, Leaf spot; Payne.  
C. SPP., HACKBERRY.  
*Stereum purpureum* Pers. ex Fr., Silver leaf.  
*Uncinula parvula* Cke. & Pk., Powdery mildew; Payne.

## CENCHRUS

- C. PAUCIFLORUS Benth., MAT SANDBUR.  
*Puccinia cenchri* Diet. & Holw., Rust.  
*Sorosporium syntherismae* (Pk.) Farl., Smut; Texas, Woodward.

## CENTAUREA

- C. AMERICANA Nutt., BASKETFLOWER CENTAUREA.  
*Puccinia irrequisita* Jacks., Rust; McCurtain, Murray.  
*Septoria centaureicola* var. *brevispora* Pk., Leaf spot; Murray.  
C. CYANUS L., CORNFLOWER.  
*Septoria cyani* Holl., Leaf spot; Payne.

## CEPHALANTHUS

- C. OCCIDENTALIS L., COMMON BUTTONBUSH.  
*Cercospora perniciosa* Heald & Wolf, Leaf blight.  
*Ramularia cephalanthi* Ell. & Kell., Leaf spot; Payne.

## CERATOSTIGMA

- C. PLUMBAGINOIDES Bunge, BLUE CERATOSTIGMA.  
*Phyllosticta larpentae* Tassi, Leaf spot; Payne.

## CERCIS

- C. CANADENSIS L., EASTERN REDBUD.  
*Alternaria* sp., Leaf spot; Delaware, Payne.  
*Cercospora cercidis* Ray, Leaf spot; McCurtain, Murray,  
Muskogee, Payne.  
*Discosia artocreas* Tode ex Fr., Leaf spot; Murray,  
Payne.  
*Mycosphaerella cercidicola* (Ell.& Kell.) Wolf, Leaf  
spot; Payne.  
*Pestalotia* sp., Leaf spot; Murray, Payne.  
*Phyllosticta cercidicola* Ell.& Ev., Leaf spot; Payne.

## CHAENOMELES

- C. LAGENARIA (Lois.) Koidz., FLOWERINGQUINCE.  
*Fusicladium pirinum* (Lib.) Fckl., Scab ;Tulsa.

## CHEIRANTHUS

- C. CHEIRI L., COMMON WALLFLOWER.  
*Heterosporium* sp., Leaf spot; Payne.

## CHENOPODIUM

- C. ALBUM L., LAMBSQUARTERS GOOSEFOOT.  
*Cercospora dubia* (Riess) Wint., Leaf spot; Payne.  
*Peronospora effusa* (Grev.) Rabh., Downy mildew;  
Payne.  
*Puccinia aristidae* Tr., Rust; McCurtain.
- C. HYBRIDUM L., MAPLELEAF GOOSEFOOT.  
*Cercospora anthelmintica* Atk., Leaf spot; Payne.  
*Cercospora dubia* (Riess) Wint., Leaf spot; Payne.
- C. SP., GOOSEFOOT.  
*Peronospora* sp., Downy mildew; Payne.

## CHIONANTHUS

- C. VIRGINICA L., WHITE FRINGETREE.  
*Cercospora chionanthi* Ell.& Ev., Leaf spot; Payne.

## CHLORIS

- C. VERTICILLATA Nutt., TUMBLE WINDMILLGRASS.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Muskogee.  
*Puccinia chloridis* Speg., Leaf rust; Payne.

## CHRYSANTHEMUM

- C. FRUTESCENS, MARGUERITE CHRYSANTHEMUM.  
*Septoria* sp., Leaf spot; Payne.
- C. MAXIMUM Ram., PYRENEES CHRYSANTHEMUM.  
*Cercospora chrysanthemi* Heald & Wolf, Leaf spot; Payne.
- C. MORIFOLIUM Ram., FLORISTS CHRYSANTHEMUM.  
*Puccinia chrysanthemi* Roze, Rust; Payne.
- C. SPP., CHRYSANTHEMUM.  
*Alternaria* sp., Leaf blight; Oklahoma.  
*Erwinia carotovora* (Jones) Winslow et al., Soft rot; Oklahoma.  
*Fusarium oxysporum* f. *conglutinans* (Wr.) Snyder & Hansen, Wilt; Garfield, Payne.  
*Fusarium* spp., Root rot; Garfield, Oklahoma, Okmulgee, Payne.  
*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Craig, Oklahoma.  
*Puccinia chrysanthemi* Roze, Rust; general.  
*Sclerotium bataticola* Taub., Charcoal rot; Payne.  
*Septoria chrysanthemella* Sacc., Leaf spot; Oklahoma.  
*Septoria macrosporia* Dearn., Leaf spot; Oklahoma.

## CHRYSOPSIS

- C. BERLANDIERI Greene, GOLDASTER.  
*Puccinia grindeliae* Peck, Rust.

## CICUTA

- C. MACULATA L., SPOTTED WATERHEMLOCK.  
*Coniothyrium* sp.; Murray.  
*Macrosporium commune* Rabh., Murray.  
*Phyllosticta* sp., Leaf spot; Murray.

## CIRSIIUM

- C. DISCOLOR (Muhl.) Spreng., FIELD THISTLE.  
*Puccinia cirsii* Lasch, Rust.
- C. UNDULATUM var. MEGACEPHALUM (A.Gray) Fern., THISTLE.  
*Albugo tragopogonis* (Pers.) S.F.Gray, White rust; Payne.  
*Puccinia cirsii* Lasch, Rust.  
*Puccinia obtogens* (Link) Tul., Rust; Payne.

## CISSUS

- C. INCISA (Nutt.) Desmoul., IVY TREEBINE.  
*Aecidium mexicanum* D.& H., Rust; Southern Oklahoma..

## CITRULLUS

## C. VULGARIS Schrad., WATERMELON.

*Colletotrichum lagenarium* (Pass.) Ell. & Halst., Anthracnose; general with collections from Okfuskee, Oklahoma, Payne, Seminole.

*Diplodia* sp., Diplodia rot.

*Erwinia tracheiphila* (E. F. Sm.) Holland, Bacterial wilt; Delaware, Lincoln, Seminole, Tulsa.

*Fusarium oxysporum* f. *niveum* (E. F. Sm.) Snyder & Hansen, Fusarium wilt; Beckham, Cherokee, Choctaw, Ellis, Grady, Grant, Haskell, Logan, Okfuskee, Oklahoma, Pittsburg, Tulsa, Washita.

*Fusarium* sp., Damping off; Tulsa.

*Heterodera marioni* (Cornu) Goodey, Root knot; Logan.

*Macrosporium cucumerinum* Ell. & Ev., Leaf blight; Seminole.

*Pythium* sp., Damping off; Tulsa.

## CITRUS

## C. PARADISI Macfad., GRAPEFRUIT.

*Glomerella cingulata* (Ston.) Spauld. & Schrenk, Anthracnose; Canadian.

*Penicillium digitatum* Sacc., Green mold; Canadian.

## C. TRIFOLIATA L., HARDY ORANGE.

*Diplodia natalensis* Pole-Evans, Dieback; Payne.

## CLADRASTIS

## C. LUTEA (Michx.) Koch, AMERICAN YELLOWWOOD.

*Botryosphaeria ribis* (Tode ex Fr.) Gross. & Dug., Dieback; Adair.

*Phyllactinia corylea* Pers. ex Karst., Powdery mildew; Payne.

## CLEMATIS

## C. PITCHERI T. &amp; G., PITCHERS CLEMATIS.

*Cercospora squalidula* Pk., Leaf spot; Payne.

## C. VIRGINIANA L., VIRGINSBOWER.

*Cercospora squalidula* Pk., Leaf spot; Payne.

*Cladosporium* sp., Leaf spot; Payne.

## C. SP., CLEMATIS.

*Puccinia rubigo-vera agropyrina* (Erikss.) Arth., Rust; McCurtain.

## CLEOME

- C. LUTEA Hook., YELLOW SPIDERFLOWER.  
*Cercospora conspicua* Earle, Leaf spot; Payne.  
C. SERRULATA Pursh, BEE SPIDERFLOWER.  
*Cercospora conspicua* Earle, Leaf spot; Woods.

## CNIDOSCOLUS

- C. TEXANUS (Muell. Arg.) Small, TEXAS TREAD-SOFTLY.  
*Septoria jatrophae* Heald & Wolf, Leaf spot; Payne.

## COCCULUS

- C. CAROLINUS (L.) DC., CAROLINA MOONSEED:  
CAROLINA SNAILSEED.  
*Cercospora cocculicola* Ray, Leaf spot; Payne, Pittsburg.  
*Cercospora menispermi* E. & H., Leaf spot.  
*Phyllosticta* sp., Leaf spot; Payne.

## COLEUS

- C. SP., COLEUS.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
Craig, Payne.

## COLUTEA

- C. ARBORESCENS L., COMMON BLADDERSENNA.  
*Ganoderma* sp., Root rot.

## COMANDRA

- C. UMBELLATA (L.) Nutt., COMMON COMANDRA.  
*Cuscuta arvensis* Beyrich, Dodder; Caddo.

## COMMELINA

- C. VIRGINICA L., VIRGINIA DAYFLOWER.  
*Phyllosticta* sp., Leaf spot; Payne.

## CONVOLVULUS

- C. ARVENSIS L., EUROPEAN GLORYBIND: FIELD BINDWEED.  
*Cercospora tuberculella* J.J.Davis, Leaf spot; Payne.  
*Puccinia convolvuli* (Pers.) Cast., Rust; Payne.  
*Septoria convolvuli* Desm., Leaf spot; Payne.

## COREOPSIS

- C. GRANDIFLORA Hogg, BIGFLOWER COREOPSIS.  
*Cercospora coreopsidis* Ray, Leaf spot; Payne.
- C. TINCTORIA Nutt., PLAINS COREOPSIS.  
*Cuscuta cuspidata* Engelm., Dodder.
- C. VERTICILLATA L., THREADLEAF COREOPSIS.  
*Cuscuta arvensis* Beyrich, Dodder; Muskogee.  
*Cuscuta cuspidata* Engelm., Dodder; Comanche.  
*Cuscuta indecora* Choisy, Dodder; Carter.

## CORNUS

- C. ASPERIFOLIA Michx., ROUGHLEAF DOGWOOD.  
*Alternaria* sp., Leaf spot; Payne.  
*Septoria cornicola* Desm., Leaf spot; Payne.
- C. STOLONIFERA Michx., REDOSIER DOGWOOD.  
*Cylindrosporium* sp., Leaf spot; Payne.  
*Septoria cornicola* Desm., Leaf spot; Payne.

## CORYDALIS

- C. SP., CORYDALIS.  
*Peronospora corydalidis* DeBy., Downy mildew; Payne

## CORYLUS

- C. AMERICANA Marsh., AMERICAN FILBERT.  
*Cercospora corylina* Ray, Leaf spot; Payne.
- C. CORNUTA Marsh., BEAKED FILBERT.  
*Cercospora corylina* Ray, Leaf spot; Payne.

## COTINUS

- C. COGGYGRIA Scop., COMMON SMOKETREE.  
*Macrophoma* sp., Dieback; Payne.

## CRATAEGUS

- C. VIRIDIS L., GREEN HAWTHORN.  
*Gymnosporangium globosum* Farl., Hawthorn rust; Payne.
- C. SPP., HAWTHORN.  
*Armillaria mellea* Vahl ex Fr., Root rot.  
*Gymnosporangium globosum* Farl., Hawthorn rust; general with collections from Payne, Tulsa.  
*Gymnosporangium* spp., Rust; Atoka, Le Flore, McCurtain, Payne.  
*Phyllosticta* sp., Leaf spot; Oklahoma.

## CROTALARIA

- C. SPECTABILIS Roth, SHOWY CROTALARIA.  
*Ascochyta pisi* Lib., Anthracnose; Payne.
- C. SPP., CROTALARIA.  
*Fusarium* sp., Wilt; Payne.  
*Sclerotium bataticola* Taub., Charcoal rot; Payne.

## CROTON

- C. CAPITATUS Michx., WOOLY CROTON.  
*Bubakia crotonis* (Cke.) Arth., Rust; Comanche, Kay.
- C. MONANTHOGYNUS Michx., SINGLE FRUITED CROTON.  
*Bubakia crotonis* (Cke.) Arth., Rust; Comanche, Muskogee, Osage, Payne.
- C. TEXENSIS (Klotzsch) Muell. Arg., TEXAS CROTON.  
*Bubakia crotonis* (Cke.) Arth., Rust; Payne.

## CUCUMIS

- C. MELO L., MUSKMELON.  
*Aspergillus* sp., Fruit rot; Payne.  
*Colletotrichum lagenarium* (Pass.) Ell. & Halst., Anthracnose; general.  
*Erwinia carotovora* (Jones) Winslow et al., Soft rot; Payne.  
*Erwinia tracheiphila* (E.F.Sm.) Holland, Bacterial wilt; Haskell, Muskogee, Okfuskee, Seminole, Woodward.  
*Fusarium oxysporum* f. *niveum* (E.F.Sm.) Snyder & Hansen, Fusarium wilt.  
*Fusarium* sp., Fruit rot; Payne.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Beckham, Logan.  
*Macrosporium cucumerinum* Ell. & Ev., Leaf blight; Okfuskee, Payne, Woodward.  
*Penicillium* sp., Fruit rot; Payne.  
*Pseudoperonospora cubensis* (Berk. & Curt.) Rostew., Downy mildew; Okfuskee, Oklahoma, Okmulgee.  
*Virus*, Cucumber mosaic.
- C. SATIVUS L., CUCUMBER.  
*Cladosporium cucumerinum* Ell. & Arth., Scab.  
*Colletotrichum lagenarium* (Pass.) Ell. & Halst., Anthracnose.  
*Erwinia tracheiphila* (E.F.Sm.) Holland, Wilt; Le Flore, Muskogee, Seminole, Tulsa.  
*Erysiphe cichoracearum* DC., Powdery mildew; Oklahoma, Texas.  
*Fusarium* sp., Wilt; Le Flore, Oklahoma.

## CUCUMIS—Continued.

- Heterodera marioni* (Cornu) Goodey, Root knot;  
Custer, Seminole.  
*Macrosporium cucumerinum* Ell. & Ev., Leaf blight;  
Seminole, Tulsa.  
*Pseudomonas lachrymans* (E.F.Sm. & Bryan) Ferraris,  
Angular leaf spot; Seminole.  
*Pseudoperonospora cubensis* (Berk. & Curt.) Rostew,  
Downy mildew; Adair, Payne, Tulsa.  
*Virus*, Cucumber mosaic; Oklahoma, Payne.

## CUCURBITA

- C. FOETIDISSIMA HBK., BUFFALOGOURD: MISSOURI  
GOURD.  
*Cercospora cucurbitae* Ell. & Ev.; Noble.  
*Erysiphe cichoracearum* DC., Powdery mildew; Cleve-  
land.  
C. MAXIMA Duchesne, WINTER SQUASH.  
*Choenephora cucurbitarum* (Berk. & Rav.) Thaxter,  
Blossom blight; Payne.  
*Erysiphe cichoracearum* DC., Powdery mildew; Okla-  
homa, Payne.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
general with collections from Harmon, Lincoln.  
*Virus*, Cucumber mosaic; Payne.  
C. MOSCHATA Duchesne, CUSHAW.  
*Choenephora cucurbitarum* (Berk. & Rav.) Thaxter,  
Blossom blight; Payne.  
C. PEPO L., PUMPKIN.  
*Erysiphe cichoracearum* DC., Powdery mildew; Payne.

## CUNNINGHAMIA

- C. LANCEAOLATA Hook., COMMON CHINAFIR.  
*Cercospora* sp., Leaf spot; Grady.

## CYAMOPSIS

- C. TETRAGONOLOBA (L.) Taub., GUAR.  
*Rhizoctonia solani* Kuhn, Root rot; Payne.  
*Virus*, Mosaic; Payne.

## CYCAS

- C. SP., CYCAS.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Payne.

## CYCLAMEN

- C. SP., CYCLAMEN.  
*Cladosporium cyclaminis* Massey & Tilford, Cyclamen  
stunt; Lincoln, Logan, Muskogee, Tulsa.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Logan.

## CYDONIA

## C. OBLONGA Mill., COMMON QUINCE.

*Entomosporium maculatum* Lev., Leaf blight; Washington.

*Erwinia amylovora* (Burr.) Winslow, Fire blight; general.

*Fabraea maculata* (Lev.) Atk., Leaf blight; Washington.

*Gymnosporangium clavipes* Cke. & Pk., Orange rust; Tulsa.

## CYNODON

## C. DACTYLON (L.) Pers., BERMUDAGRASS.

*Colletotrichum graminicolum* (Ces.) G.W. Wils., Anthracnose; Payne, Seminole.

*Coniosporium rhizophilum* (Preuss) Sacc., Mold, Okfuskee.

*Helminthosporium cynodontis* Mariognoni, Leaf spot; Payne, Seminole, Tulsa.

*Helminthosporium giganteum* Heald & Wolf, Leaf spot; Hughes, Muskogee, Okmulgee, Payne, Seminole.

*Helminthosporium* sp., Leaf spot; Payne, Tulsa.

*Mucilago spongiosa* (Leyss.) Morg., Smothering; Garvin, Lincoln, Payne.

*Physarum cinereum* (Batsch) Pers., Smothering; Garvin, Payne.

*Piricularia grisea* (Cke.) Sacc., Leaf spot; Payne.

*Puccinia cynodontis* Lacr., Rust; Payne.

*Rhizoctonia* sp., Root rot; Payne.

*Sclerospora farlowii* Grif., Downy mildew; Payne.

*Septoria* sp., Leaf spot.

*Ustilago cynodontis* Henn., Loose smut; Canadian, Nowata, Oklahoma, Payne, Seminole, Wagoner.

## CYPERUS

## C. ESCULENTUS L., CHUFA FLATSEEDGE.

*Puccinia canaliculata* (Schw.) Lagerh., Rust; Muskogee, Payne.

## C. FILICULMIS Vahl, SLENDER FLATSEEDGE.

*Puccinia cyperi* Arth., Rust; Logan, Payne.

## C. PSEUDOVEGETUS Steud., SEDGE.

*Puccinia cyperi* Arth., Rust.

## C. ROTUNDUS L., NUTGRASS FLATSEEDGE.

*Puccinia canaliculata* (Schw.) Lagerh., Rust; Payne.

## C. SCHWEINITZI Torr., SCHWEINITZ FLATSEEDGE.

*Puccinia cyperi* Arth., Rust.

## CYPERUS—Continued.

- C. STRIGOSUS L., STRAW-COLORED FLATSEEDGE.  
*Puccinia canaliculata* (Schw.) Lagerh., Rust; Oklahoma.  
C. SPP.  
*Puccinia canaliculata* (Schw.) Lagerh., Rust; Creek, Payne.  
*Puccinia cyperi* Arth., Rust, Noble.

## DACTYLIS

- D. GLOMERATA L., ORCHARDGRASS.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Payne.  
*Phyllachora* sp., Black spot; Payne.  
*Puccinia graminis* Pers., Stem rust; Payne.  
*Scolecotrichum graminis* Fckl., Brown stripe; Payne.  
*Septoria* sp., Leaf spot; Payne.  
*Uromyces dactylidis* Otth, Rust; Woodward.

## DAHLIA

- D. SPP., DAHLIA  
*Bacterium solanacearum* E.F.Sm., Bacterial wilt.  
*Cercospora* sp., Leaf spot; Le Flore.  
*Fusarium* sp., Wilt; Oklahoma.  
*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Carter, Oklahoma.  
*Penicillium* sp., Storage rot; Oklahoma.  
*Vermicularia compacta* Cke.& Ell., Anthracnose; Tulsa.  
*Virus*, Dahlia mosaic; Payne.

## DALEA

- D. ENNEANDRA Nutt., SLENDER DALEA.  
*Puccinia andropogonis onobrychidis* (Burr.) Arth., Rust; Payne.

## DATURA

- D. METELOIDES DC., SACRED DATURA.  
*Alternaria crassa* (Sacc.) Rands, Leaf spot; Payne.  
D. STRAMONIUM L., JIMSONWEED DATURA.  
*Alternaria crassa* (Sacc.) Rands, Leaf spot; Payne.  
*Cercospora daturicola* (Speg.) Ray, Leaf spot; Logan.

## DAUCUS

- D. CAROTA L., CARROT.  
*Erwinia carotovora* (Jones) Winslow et al., Soft rot.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Caddo, Ellis, Oklahoma, Payne, Pottawatomie.

## DELPHINIUM

## D. SPP., LARKSPUR.

*Erysiphe polygoni* DC., Powdery mildew; Payne.

*Fusarium* sp., Root rot; Tulsa.

## DESCURAINIA

## D. PINNATA (Walt.) Britton, PINNATE TANSY-MUSTARD.

*Albugo candida* (Pers. ex Lev.) Kuntze, White rust; Caddo.

## D. RICHARDSONII ssp. INCISA (Engelm.) Detling, TANSYMUSTARD.

*Peronospora parasitica* (Pers.) Fr., Downy mildew; Payne.

*Septoria sisymbrii* Ell., Leaf spot; Payne.

## DESMODIUM

## D. CANESCENS (L.) DC., HOARY TICKCLOVER.

*Cercospora desmodiicola* Atk., Leaf spot; Payne.

## D. MARILANDICUM (L.) DC., MARYLAND TICKCLOVER.

*Parodiella perisporioides* (Berk. & Curt.) Speg., Black spot; Le Flore.

## D. PANICULATUM (L.) DC., PANICLED TICKCLOVER.

*Tuberculina flavogranulata* Dearn. & Barth., Parasitic on *Uromyces hedysari-paniculati* (Schw.) Farl., on living leaves; Le Flore.

*Uromyces hedysari-paniculati* (Schw.) Farl., Rust; Le Flore.

## D. SESSILIFOLIUM (Torr.) T. &amp; G., SESSILE TICKCLOVER.

*Uromyces hedysari-paniculati* (Schw.) Farl., Rust.

## D. SP., TICKCLOVER.

*Cercospora desmodii* Ell. & Kell., Leaf spot; Payne.

## DEUTZIA

## X D. LEMOINEI Lemoine, LEMOINE DEUTZIA.

*Cercospora deutziae* Ell. & Ev., Leaf spot; Payne.

## DIANTHERA

## D. AMERICANA L., AMERICAN DIANTHERA.

*Cercospora diantherae* Ell. & Kell., Leaf spot; Murray.

## D. OVATA Walt., DIANTHERA.

*Cercospora diantherae* Ell. & Kell., Leaf spot; Comanche.

## DIANTHUS

## D. CARYOPHYLLUS L., CARNATION.

*Fusarium* spp., Dieback; Oklahoma, Payne, Pontotoc.

*Heterodera marioni* (Cornu) Goodey, Root knot;

Oklahoma.

*Pseudomonas woodsii* (E.F.Sm.) Stapp, Bacterial spot.

*Uromyces caryophyllinus* (Schr.) Wint., Rust; general with collection from Payne.

*Virus*, Carnation mosaic; Kay.

## DIARRHENA

## D. AMERICANA Beauv., AMERICAN BEAKGRAIN.

*Colletotrichum graminicolum* (Ces.) G.W.Wils.,

Anthracnose; Payne.

## DIEFFENBACHIA

## D. PICTA Schott, VARIABLE TUFTROOT.

*Gloeosporium minutum*, Anthracnose; Payne.

## DIGITARIA

## D. FILIFORMIS (L.) Koel., SLENDER FINGERGRASS.

*Colletotrichum graminicolum* (Ces.) G.W.Wils.,

Anthracnose; Osage.

## D. SANGUINALIS (L.) Scop., HAIRY CRABGRASS.

*Piricularia grisea* (Cke.) Sacc., Leaf spot; Payne.

*Sorosporium syntherismae* (Pk.) Farl., Smut; Payne.

*Ustilago rabenhorstiana* Kuhn, Flower smut; Payne.

## DIODIA

## D. TERES Walt., ROUGH BUTTONWEED.

*Cercospora diodiae* Cke., Leaf spot; Payne.

*Uromyces spermacoces* (Schw.) Curt., Rust; Haskell,

Le Flore, Lincoln, Pawnee, Payne.

## DIOSPYROS

## D. KAKI L. f., JAPANESE PERSIMMON.

*Cercospora fuliginosa* Ell.& Kell., Black leaf spot.

*Leptothyrium pomi* (Mont.& Fr.) Sacc.; Bryan.

## D. VIRGINIANA L., COMMON PERSIMMON.

*Cercospora diospyri* Thum., Leaf spot; Osage.

*Nonparasitic*, Black leaf spot; general with collections from Osage, Payne, Seminole.

## DISTICHLIS

- D. SPICATA (L.) Greene, SEASHORE SALTGRASS.  
*Endodothella tracyi* (Ell. & Ev.) Theiss. & Syd.  
*Phyllachora diplocarpa* Ell. & Ev., Black spot; **Kiowa**.  
*Puccinia aristidae* Tracy, Rust.
- D. STRICTA (Torr.) Rydb., INLAND SALTGRASS.  
*Puccinia aristidae* Tracy, Rust; Payne.

## DODECATHEON

- D. MEADIA L., COMMON SHOOTINGSTAR.  
*Contiothyrium* sp.; Delaware.

## DRACAENA

- D. FRAGRANS Ker, FRAGRANT DRACAENA.  
*Gloeosporium polymorphum* Tunchili, Anthracnose;  
 Payne.

## ECHINACEA

- E. ANGUSTIFOLIA DC., BLACKSAMSON ECHINACEA.  
*Metasphaeria* sp.; Murray.

## ECHINOCHLOA

- E. CRUSGALLI (L.) Beauv., BARNYARDGRASS.  
*Coletotrichum graminicolum* (Ces.) G.W. Wils.,  
 Anthracnose; Payne.  
*Puccinia flaccida* B. & Br., Rust.  
*Ustilago crus-galli* Tracy & Earle, Smut.

## ELAEAGNUS

- E. ANGUSTIFOLIA L., RUSSIANOLIVE.  
*Alternaria* sp.; Payne.  
*Cercospora elaeagni* Heald & Wolf, Leaf spot; Oklahoma, Payne.  
*Cytospora elaeagni* Allesch., Canker.  
*Phyllosticta argyrea* Speg., Leaf spot; Payne.
- E. COMMUTATA Bernh., SILVERBERRY.  
*Cercospora elaeagni* Heald & Wolf, Leaf spot; Payne.

## ELEOCHARIS

- E. OBTUSA (Willd.) Schultes, BLUNT SPIKESEDGE.  
*Puccinia eleocharidis* Arth., Rust.
- E. TENUIS (Willd.) Schultes, SLENDER SPIKESEDGE.  
*Puccinia eleocharidis* Arth., Rust.

## ELEPHANTOPUS

- E. CAROLINIANUS Raeusch., ELEPHANTSFOOT.  
*Coleosporium elephantopodis* (Schw.) Thum., Rust;  
 Le Flore, Ottawa, Payne.

## ELEUSINE

- E. INDICA (L.) Gaertn., GOOSEGRASS.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
 Anthracnose; Payne.

## ELLISIA

- E. NYCTELEA L., MACROCALYX.  
*Puccinia rubigo-vera apocrypta* (Ell.& Tr.) Arth., Rust.

## ELYMUS

- E. CANADENSIS L., CANADA WILD RYE.  
*Ascochyta elymi* Tehon & Daniels, Leaf spot; Payne.  
*Claviceps purpurea* (Fr.) Tul., Ergot; general with col-  
 lections from Payne, Washita.  
*Glomerella* sp., Leaf spot; Payne.  
*Puccinia graminis* Pers., Stem rust; Payne, Woodward.  
*Puccinia rubigo-vera impatientis* (Arth.) Mains, Rust;  
 Logan.  
*Septoria elymi* Ell.& Ev., Leaf spot; Woodward.
- E. GLAUCUS Buckl., BLUE WILD RYE.  
*Puccinia graminis* Pers., Stem rust; Payne.
- E. JUNCEUS Fisch., RUSSIAN WILD RYE.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
 Anthracnose; Payne.  
*Puccinia graminis* Pers., Stem rust; Payne.
- E. VILLOSUS Muhl., HAIRY WILD RYE.  
*Ophiobolus cariceti* (B.& Br.) Sacc.; Payne.
- E. VIRGINICUS L., VIRGINIA WILD RYE.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Payne, Washita.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
 Anthracnose; Cleveland.  
*Puccinia graminis* Pers., Stem rust; Payne.  
*Puccinia rubigo-vera agropyrina* (Erikss.) Arth., Leaf  
 rust.  
*Puccinia rubigo-vera impatientis* (Arth.) Mains, Rust;  
 Woodward.  
*Urocystis agropyri* (Preuss.) Schroet., Smut.  
*Ustilago striaeformis* (Westend.) Niessl, Smut; Payne.

## EPIDENDRUM

## E. SP., ORCHID.

*Rhizoctonia solani* Kuhn, Root rot; Oklahoma.

## ERAGROSTIS

## E. PECTINACEA (Michx.) Steud., CAROLINA LOVEGRASS.

*Uromyces eragrostidis* Tracy, Rust.

## E. PILOSA (L.) Beauv., INDIA LOVEGRASS.

*Puccinia eragrostidis* Tracy, Rust; Payne.

## E. SECUNDIFLORA Presl, RED LOVEGRASS.

*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Cleveland.

## E. SPECTABILIS (Pursh) Steud., PURPLE LOVEGRASS.

*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.

*Uromyces eragrostidis* Tracy, Rust; Logan.

## E. TRICHODES (Nutt.) Wood, SAND LOVEGRASS.

*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Payne.

## EREMOCHLOA

## E. OPHIUROIDES (Munro) Hack., CENTIPEDEGRASS.

*Curvularia geniculata* (Tracy & Earle) Boedijn; Payne.

## ERIGERON

## E. CANADENSIS L., HORSEWEED FLEABANE.

*Cuscuta cuspidata* Engelm., Dodder; Pittsburg.

*Puccinia cyperi* Arth., Rust; Haskell, Payne.

*Septoria erigerontis* Pk., Leaf spot; Payne.

## E. STRIGOSUS Muhl., DAISY FLEABANE.

*Cercospora cana* (Pass.) Sacc., Leaf spot; Delaware.

*Puccinia cyperi* Arth., Rust; Muskogee, Payne.

*Puccinia extensicola erigerontis* Arth., Rust.

*Septoria erigerontis* Pk., Leaf spot; Payne.

*Virus*, Aster yellows; Payne.

## EUCHLAENA

## E. SP., TEOSINTE.

*Ustilago zae* (Beck) Ung., Smut; Payne.

## EUONYMUS

## E. FORTUNEI var. VEGETUS Rehd., BIGLEAF WINTER-CREEPER EUONYMUS.

*Phomopsis foveolaris* (Fr.) Trav.; Oklahoma.

*Phyllosticta euonymi* Sacc., Leaf spot; Oklahoma.

## EUONYMUS—Continued.

## E. SPP., EUONYMUS.

*Fusarium* sp., Wilt; Oklahoma.

*Phyllosticta euonymi* Sacc., Leaf spot; Oklahoma.

## EUPATORIUM

## E. COELESTINUM L., MISTFLOWER EUPATORIUM.

*Puccinia conoclinii* Seym., Rust; Payne.

## E. SEROTINUM Michx., LATE EUPATORIUM.

*Puccinia eleocharidis* Arth., Rust.

## EUPHORBIA

## E. COROLLATA L., FLOWERINGSPURGE EUPHORBIA.

*Phyllosticta* sp., Leaf spot; Cherokee.

## E. DENTATA Michx., TOOTHED EUPHORBIA.

*Uromyces proeminens poinsettiae* (Tranz.) Arth.,  
Rust; Comanche, Payne.

E. DICTYOSPERMA Fisch. & Mey., RETICULATE-  
SEEDED EUPHORBIA.

*Uromyces dictyosperma* Ell. & Ev., Rust; Muskogee.

E. HUMISTRATA Engelm., HAIRY SPREADING  
EUPHORBIA.

*Uromyces proeminens euphorbiicola* (Tranz.) Arth.,  
Rust; Pawnee, Payne.

## E. MACULATA L., SPOTTED EUPHORBIA.

*Cercospridium euphorbiae* (T. & E.) Earle, Leaf spot;  
Payne.

*Uromyces proeminens euphorbiicola* (Tranz.) Arth.,  
Rust; Pawnee, Payne.

*Uromyces proeminens typica* Arth., Rust; Pawnee.

E. MARGINATA Pursh, SNOW-ON-THE-MOUNTAIN  
EUPHORBIA.

*Cercospora pulcherrimae* Tharp, Leaf spot; Coman-  
che, Payne.

*Puccinia panici* Diet., Rust; Payne.

*Uromyces proeminens myristica* (B. & C.) Arth., Rust;  
Payne, Seminole.

## E. PULCHERRIMA Willd., COMMON POINSETTIA.

*Pythium debaryanum* Hesse, Stem rot; Bryan.

*Uromyces proeminens poinsettiae* (Tranz.) Arth., Rust.

E. STICTOSPORA Engelm., NARROW-SEEDED  
EUPHORBIA.

*Uromyces proeminens euphorbiicola* (Tranz.) Arth.,  
Rust.

## FESTUCA

- F. ELATIOR L., MEADOW FESCUE.  
*Cercospora* sp., Leaf spot; Payne.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
 Anthracnose; Payne.
- F. VERSUTA Beal, TEXAS FESCUE.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
 Anthracnose; Comanche.

## FICUS

- F. AUREA Nutt., FLORIDA STRANGLER FIG.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Tulsa.
- F. CARICA L., COMMON FIG.  
*Nectria cinnabarina* Tode ex Fr., Canker; Comanche.
- F. ELASTICA Roxb., INDIARUBBER FIG: RUBBER-  
 PLANT.  
*Gloeosporium cingulatum* Atk., Leaf spot; Osage,  
 Washington.

## FIMBRISTYLIS

- F. AUTUMNALIS (L.) R.& S., SLENDER UMBELLED  
 SPIKERUSH.  
*Cintractia axicola* (Berk.) Cornu, Smut; Le Flore.
- F. VAHLII (Lam.) Link. VAHL UMBELLED SPIKERUSH.  
*Cintractia axicola* (Berk.) Cornu, Smut.

## FORSYTHIA

- F. INTERMEDIA Zabel, BORDER FORSYTHIA.  
*Alternaria* sp., Leaf spot; Payne.
- F. VIRIDISSIMA Lindl., GREENSTEM FORSYTHIA.  
*Phyllosticta terminalis* Ell.& Mart., Leaf spot; Payne.
- F. SPP., FORSYTHIA.  
*Polyporus hirsutus* Wulf. ex Fr., Wood rot; Payne.  
*Stereum albobadium* (Schw.) Fr., Wood rot; Payne.

## FRAGARIA

- F. VIRGINIANA Duchesne, VIRGINIA STRAWBERRY.  
*Mycosphaerella fragariae* (Tul.) Lind., Leaf spot;  
 Payne.
- F. SPP., STRAWBERRY.  
*Botrytis* sp., Gray mold rot; Creek, Seminole.  
*Dendrophoma obscurans* (Ell.& Ev.) H.W.Anderson,  
 Leaf blight; Delaware, Wagoner.  
*Diplocarpon earliana* (Ell.& Ev.) Wolf, Leaf scorch;  
 general with collections from Adair, Caddo, Cherokee,  
 Payne, Pontotoc, Rogers, Seminole.

## FRAGARIA—Continued.

*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Payne, Tulsa, Woodward.

*Mucilago spongiosa* (Leyss.) Smothering; Alfalfa, Garfield, Noble, Oklahoma, Osage, Woods.

*Mycosphaerella fragariae* (Tul.) Lind., Leaf spot; general with collections from Adair, Cherokee, Delaware, Hughes, Pawnee, Payne, Seminole, Tulsa.

*Phytophthora cactorum* (Leb. & Cohn.) Schroet., Leather rot; Adair.

*Phytophthora fragariae* Hickman, Red stele; Pittsburg.

*Rhizoctonia solani* Kuhn, Root rot; Oklahoma.

*Rhizopus nigricans* Ehrenb. ex Fr., Soft rot; Creek, Seminole.

*Sphaerotheca humuli* (DC.) Burr., Powdery mildew.

*Virus*, Strawberry crinkle; Cherokee.

*Nonparasitic*, Leaf variegation: June yellows; Payne.

## FRAXINUS

## F. AMERICANA L., WHITE ASH.

*Agrobacterium rhizogenes* (Riker et al.) Conn, Hairy root.

*Fomes fraxinophilus* (Pk.) Sacc., Heart rot; Payne.

*Phyllosticta viridis* Ell. & Kell., Leaf spot; Payne.

*Piggotia fraxini* Berk. & Curt., Leaf spot; Le Flore.

## F. NIGRA Marsh., BLACK ASH.

*Cytospora annularis* Ell. & Ev., Twig canker; Payne.

*Septoria fraxini* Desm., Leaf spot; Payne.

## F. PENNSYLVANICA Marsh., RED ASH.

*Heterodera marioni* (Cornu) Goodey, Root knot.

## F. PENNSYLVANICA var. LANCEOLATA (Borkh.) Sarg., GREEN ASH.

*Heterodera marioni* (Cornu) Goodey, Root knot; Haskell.

## F. VELUTINA Torr., VELVET ASH.

*Cylindrosporium fraxini* (Ell. & Kell.) Ell. & Ev., Leaf spot.

*Mycosphaerella fraxinicola* (Schw.) House, Leaf spot.

*Phyllosticta fraxinicola* (Currey) Ell. & Ev., Leaf spot; Payne.

## F. VELUTINA var. TOUMEYI Rehd., TOUMEY ASH.

*Cylindrosporium fraxini* (Ell. & Kell.) Ell. & Ev., Leaf spot; Payne.

## F. SPP., ASH.

*Fomes* sp., Wood rot; Payne.

*Heterodera marioni* (Cornu) Goodey, Root knot.

## FRAXINUS—Continued.

- Polyporus versicolor* L. ex Fr., Heart rot; Payne.  
*Puccinia peridermiospora* (Ell. & Tr.) Arth., Rust;  
 Osage, Payne.  
*Rhizoctonia solani* Kuhn, Seedling blight.  
*Septoria fraxini* Desm., Leaf spot.

## FUCHSIA

- F. SP., FUCHSIA.  
*Septoria* sp., Leaf spot; Payne.

## GAILLARDIA

- G. ARISTATA Pursh, COMMON PERENNIAL  
 GAILLARDIA.  
*Septoria gaillardiae* Ell. & Ev., Leaf spot; Payne.  
 G. PULCHELLA Foug., SHOWY GAILLARDIA.  
*Septoria gaillardiae* Ell. & Ev., Leaf spot; Murray.  
 G. SP., GAILLARDIA.  
*Septoria gaillardiae* Ell. & Ev., Leaf spot.

## GALIUM

- G. APARINE L., CATCHWEED BEDSTRAW.  
*Cuscuta cuspidata* Engelm., Dodder; Comanche.

## GARDENIA

- G. SP., GARDENIA.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
 Oklahoma, Payne, Pontotoc.  
*Phomopsis gardeniae* Hans. & Barr., Canker; Kay.  
 Nonparasitic, Bud drop; Payne.

## GAURA

- G. BIENNIS L., BIENNIAL GAURA.  
*Cercospora gaurae* Kell. & Swing., Leaf spot; Hughes,  
 Payne, Seminole.  
*Septoria gaurina* Ell. & Kell., Leaf spot; Payne, Pottawatomie.  
*Uromyces plumbarius* Pk., Rust; Pottawatomie.  
 G. COCCINEA Pursh, SCARLET GAURA.  
*Septoria gaurina* Ell. & Kell., Leaf spot; Comanche,  
 Payne.  
*Uromyces plumbarius* Pk., Rust.  
 G. SINUATA Nutt., WAVYLEAF GAURA.  
*Cercospora gaurea* Kell. & Swing., Leaf spot; Noble,  
 Payne.  
*Uromyces plumbarius* Pk., Rust.

## GAYLUSSACIA

## G. SPP., HUCKLEBERRY.

*Heterodera marioni* (Cornu) Goodey, Root knot;  
Logan.  
*Rhytisma vaccinii* Schw. ex Fr., Tar spot; Le Flore.

## GERANIUM

## G. CAROLINIANUM L. CAROLINA GERANIUM.

*Plasmopara geranii* (Pk.) Berl. & De Toni, Downy mildew; Payne.  
*Synchytrium geranii* Clend.; Payne.

## GERBERA

## G. JAMESONI Bolus, FLAMERAY GERBERA: TRANS-VAAL DAISY.

*Erysiphe cichoracearum* DC., Powdery mildew;  
Payne.

## GLADIOLUS

## G. SPP., GLADIOLUS

*Aspergillus* sp., Storage rot.  
*Fusarium oxysporum* f. *gladioli* (Massey) Snyder & Hansen, Corm rot; Craig, Oklahoma.  
*Penicillium gladioli* McCul. & Thom, Etorage rot; Oklahoma.  
*Pseudomonas marginata* (McCul.) Stapp, Stem rot; Scab; Oklahoma, Payne.  
*Septoria gladioli* Pass., Heart rot; Craig, Oklahoma.  
*Xanthomonas gummisudans* (McCul.) Starr & Burkh., Bacterial blight; Carter.

## GLEDITSIA

## G. TRIACANTHOS L., COMMON HONEYLOCUST.

*Alternaria* sp., Leaf spot.  
*Botryosphaeria rhizogena* (Berk.) Sacc.; Payne.  
*Cercospora condensata* Ell. & Kell., Leaf spot; Oklahoma, Payne.  
*Melasmia hypophylla* (Berk. & Rav.) Sacc., Tar spot; Osage, Payne.  
*Microsphaera alni* DC, ex Wint., Powdery mildew; Atoka.  
*Phymatotrichum omnivorum* (Shear) Dug., Root rot.

## GLYCERIA

## G. STRIATA (Lam.) Hitchc., FOWL MANNAGRASS.

*Pyrenochaeta* sp.; Muskogee.

## GOMPHRENA

- G. GLOBOSA L., COMMON GLOBEAMARANTH.  
*Alternaria* sp., Leaf spot; Payne.  
*Cercospora gomphrenae* Ray, Leaf spot; Payne.
- G. SP., GLOBEAMARANTH.  
*Alternaria* sp., Leaf spot; Payne.

## GONOLOBUS

- G. LAEVIS Michx., ANGLEPOD.  
*Cercospora gonolobi* Ray, Leaf spot; Payne.  
*Puccinia obliqua* Berk. & Curt., Rust; Payne.

## GOSSYPIUM

- G. ARBOREUM L., ASIATIC TREE COTTON.  
*Xanthomonas malvacearum* (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. BARBADENSE L., SEASLAND COTTON.  
*Xanthomonas malvacearum* (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. CONTEXTUM Cook & Hubbard.  
*Xanthomonas malvacearum* (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. HERBACEUM L., LEVANT COTTON.  
*Xanthomonas malvacearum* (E.F.Sm.) Dowson, Angular leaf spot; Payne.
- G. HIRSUTUM L., UPLAND COTTON.  
*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; Oklahoma.  
*Alternaria* sp., Leaf spot & Boll rot; general with collections from Comanche, Garvin, Hughes, Johnston, Lincoln, Muskogee, Okfuskee, Okmulgee, Payne.  
*Ascochyta gossypii* Syd., Blight; general with collections from Grady, Washita.  
*Aspergillus niger* van Tiegh., Boll rot; Bryan, Choctaw, Garvin, Haskell, Hughes, Jefferson, Johnston, Le Flore, McClain, McCurtain, Okfuskee, Oklahoma, Payne, Pittsburg, Seminole, Tillman, Washita.  
*Aspergillus* spp., Boll rot; general.  
*Brachysporium* sp., Boll rot; Johnston, Lincoln, McClain, Muskogee, Pottawatomie, Seminole.  
*Cercospora gossypina* Cke., Leaf spot; general with collections from Blaine, Hughes, Johnston, Muskogee, Okmulgee, Payne, Pottawatomie.  
*Diplodia* sp., Boll rot.

## GOSSYPIUM—Continued.

*Fusarium chlamydosporum* Wr. & Rg., Seedling disease.

*Fusarium equiseti* var. *bullatum* (Sherb.) Wr., Seedling disease.

*Fusarium moniliforme* Sheld., Pink boll rot; Seedling disease; general with collections from Creek, Garvin, Kiowa, Oklahoma, Payne.

*Fusarium oxysporum* f. *vasinfectum* (Atk.) Snyder & Hansen, Wilt; Adair, Bryan, Cherokee, Choctaw, Cleveland, Coal, Garvin, Grady, Haskell, Hughes, Jackson, Johnston, Le Flore, Love, Mayes, McCurtain, McIntosh, Muskogee, Okfuskee, Oklahoma, Okmulgee, Pittsburg, Pottawatomie, Seminole.

*Fusarium scripi* Lamb. & Fautr., Seedling disease; general.

*Fusarium scirpi* var. *acuminatuna* (E. & E.) Wr., Seedling disease; general.

*Fusarium semitectum* Berk. & Rav., Seedling disease.

*Fusarium solani* (Mart.) App. & Wr., Seedling disease.

*Fusarium solani* var. *martii* (App. & Wr.) Snyder; Seedling disease.

*Glomerella gossypii* (Southworth) Edg., Anthracnose; Caddo, Coal, Grady, Haskell, Latimer, Le Flore, Lincoln, McCurtain, Muskogee, Okfuskee, Payne, Pittsburg, Pushmataha, Sequoyah, Tulsa.

*Helminthosporium* spp., Boll rot; Grady, Noble, Stephens.

*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Beckham, Grady, Okfuskee, Payne.

*Penicillium* spp., Seedling disease: Boll rot; general.

*Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; Atoka, Bryan, Carter, Choctaw, Cotton, Garvin, Jefferson, Johnston, Love, Marshall, McCurtain, Murray, Muskogee, Tillman.

*Puccinia schedonnardi* Kell. & Swing., Rust.

*Rhizoctonia solani* Kuhn, Sore shin & Damping off; general with collections from Comanche, Cotton, McIntosh, Seminole, Tillman, Washington.

*Rhizopus nigricans* Ehrenb. ex Fr., Boll rot; general.

*Sclerotium bataticola* Taub., Charcoal rot; general with collection from Okmulgee.

*Sclerotium rolfsii* Sacc., Southern blight; general.

*Verticillium albo-atrum* Reinke & Berth., Wilt; Blaine, Caddo, Greer, Johnston, Tillman, Tulsa.

## GOSSYPIMUM—Continued.

*Xanthomonas malvacearum* (E.F.Sm.) Dowson, Angular leaf spot: Bacterial blight: Boll rot; general with collections from Blaine, Choctaw, Cleveland, Coal, Comanche, Creek, Garvin, Grady, Haskell, Hughes, Jackson, Kiowa, Le Flore, Lincoln, Logan, Love, Marshall, Mayes, McClain, Murray, Muskogee, Noble, Okfuskee, Okmulgee, Payne, Pottawatomie, Seminole, Tillman, Washington.

*Nonparasitic*, Drought injury & Sun scorch; Payne.

*Nonparasitic*, Lightning injury; Blaine, Okmulgee.

*Nonparasitic*, Manganese deficiency; McClain.

*Nonparasitic*, Potash deficiency; Bryan, Carter, Choctaw, Garvin, Grady, Haskell, Hughes, Mayes, McCurtain, Okfuskee, Payne.

## G. PERUVIANUM Cav., PERUVIAN COTTON.

*Xanthomonas malvacearum* (E.F.Sw.) Dowson, Angular leaf spot; Payne.

## G. STURTI F. Muell., AUSTRALIAN COTTON.

*Cercospora gossypina* Cke., Leaf spot; Payne.

*Xanthomonas malvacearum* (E.F.Sm.) Dowson, Angular leaf spot; Payne.

## GUTIERREZIA

## G. DRACUNCULOIDES (DC.) Blake, TARRAGON SNAKEWEED.

*Cuscuta arvensis* Beyrich, Dodder.

## G. SAROTHRAE (Pursh) Britt. &amp; Rusby, BROOM SNAKEWEED.

*Cuscuta* sp., Dodder; Cimarron.

## GYMNOCLADUS

## G. DIOICA (L.) Koch, KENTUCKY COFFEETREE.

*Cercospora gymnocladii* Ell. & Kell., Leaf spot; Payne.

*Phymatotrichum omnivorum* (Shear) Dug., Root rot.

## HALESIA

## H. MONTICOLA (Rehd.) Sarg., MOUNTAIN SILVERBELL.

*Cercospora halesiae* Dearn., Leaf spot; Payne.

## HAMAMELIS

## H. VIRGINIANA L., COMMON WITCHHAZEL.

*Cercospora hamamelidis* Ell. & Ev., Leaf spot; Payne.

*Ramularia hamamelidis* Pk., Leaf spot; Payne.

## HEDERA

- H. HELIX L., ENGLISH IVY.  
*Colletotrichum trichellum* (Fr.) Duke, Anthracnose;  
Payne.  
*Erysiphe cichoracearum* DC., Powdery mildew;  
Oklahoma.

## HELIANTHUS

- H. ANNUUS L., COMMON SUNFLOWER.  
*Cercospora pachypus* Ell.& Kell., Leaf spot; Payne.  
*Erysiphe cichoracearum* DC., Powdery mildew; Payne.  
*Puccinia helianthi* Schw., Rust; Cotton, Payne.  
*Septoria helianthi* Ell.& Kell., Leaf spot; Payne.
- H. HIRSUTUS Raf., STIFFHAIRED SUNFLOWER.  
*Puccinia helianthi* Schw., Rust.
- H. MOLLIS Lam., ASHY SUNFLOWER.  
*Puccinia helianthi* Schw., Rust; Lincoln.
- H. PETIOLARIS Nutt., PRAIRIE SUNFLOWER.  
*Puccinia helianthi* Schw., Rust; Ellis.  
*Uromyces junci* (Desm.) Tul.
- H. RIGIDUS (Cass.) Desf., STIFF SUNFLOWER.  
*Coleosporium helianthi* (Schw.) Arth., Rust.
- H. TUBEROSUS L., JERUSALEMARTICHOKE SUNFLOWER.  
*Puccinia helianthi* Schw., Rust.
- H. SPP., SUNFLOWER.  
*Cuscuta* sp., Dodder; Texas.  
*Puccinia helianthi* Schw., Rust; Cotton, Grady, Mayes,  
Payne, Texas.  
*Septoria helianthi* Ell.& Kell., Leaf spot; Delaware.

## HELIOTROPIUM

- H. CURASSAVICUM L., SALT HELIOTROPE.  
*Cercospora heliotropii* Ell.& Ev., Leaf spot; Payne.
- H. SP., HELIOTROPE.  
*Cuscuta cuspidata* Engelm., Dodder; Cimarron.

## HEMEROCALLIS

- H. SP., DAYLILY.  
*Colletotrichum liliacearum* Ferraris, Anthracnose;  
Payne.

## HIBISCUS

- H. ESCULENTUS L., OKRA.  
*Cercospora malayensis* Stev.& Solheim, Leaf spot;  
Payne.  
*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Logan, Tulsa.

## HIBISCUS—Continued.

- Phyllosticta hibiscina* Ell. & Ev., Leaf spot; Payne, Seminole.
- Rhizoctonia solani* Kuhn, Root rot; Payne.
- H. ROSA-SINENSIS L., CHINESE HIBISCUS.
- Cercospora hibisci* Tr. & Earle, Leaf spot; Payne.
- Cercospora malayensis* Stev. & Solheim, Leaf spot; Payne.
- Phyllosticta hibiscina* Ell. & Ev., Leaf spot.
- H. SYRIACUS L., SHRUBALTHEA: ROSE-OF-SHARON.
- Botryosphaeria ribis* var. *chromogena* Shear et al.; Payne.
- Cercospora hibisci* Tr. & Earle, Leaf spot; Payne.
- Cytosporina* sp.; Payne.
- Dematium pullulans* de Bary; Payne.
- Fusarium lateritium* Nees, Dieback; Payne.

## HORDEUM

- H. BULBOSUM L., BULBOUS BARLEY.
- Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Payne, Seminole.
- Puccinia graminis* Pers., Stem rust; Payne.
- H. PUSILLUM Nutt., LITTLE BARLEY.
- Erysiphe graminis* DC., Powdery mildew; Payne.
- Puccinia glumarum* (Schmidt) Erikss., Rust; Payne.
- Puccinia graminis* Pers., Stem rust; general with collection from Payne.
- Scolecotrichum graminis* Fckl., Brown stripe; Payne.
- Tilletia texana* Long, Smut.
- Uromyces hordeinus* Arth., Rust; Payne.
- H. VULGARE L., BARLEY.
- Claviceps purpurea* (Fr.) Tul., Ergot; Caddo.
- Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Seminole.
- Erysiphe graminis* DC., Powdery mildew; general with collections from Delaware, Garvin, McCurtain.
- Gibberella zeae* (Schw.) Petch, Scab.
- Helminthosporium gramineum* Rabh., Stripe; general with collections from McCurtain, Payne.
- Helminthosporium sativum* Pam., King, & Bakke, Spot blotch; general with collections from Delaware, Payne, Seminole.
- Helminthosporium teres* Sacc., Net blotch; general with collections from Delaware, McCurtain, Payne.
- Ophiobolus graminis* Sacc., Take-all foot rot; Cherokee.
- Puccinia anomala* Rostr., Leaf rust; general with col-

## HORDEUM—Continued.

- lections from Bryan, Caddo, Comanche, Lincoln, Payne, Woods.  
*Puccinia graminis* Pers., Stem rust; general with collections from Payne, Seminole.  
*Rhynchosporium secalis* (Oud.) Davis, Leaf scorch; Lincoln.  
*Sclerospora macrospora* Sacc., Downy mildew; Garvin.  
*Scoleotrichum graminis* Fckl., Leaf streak; Payne.  
*Septoria passerini* Sacc., Leaf spot; Lincoln.  
*Ustilago hordei* (Pers.) Lagerh., Covered smut; general with collections from Garfield, Payne, Seminole.  
*Ustilago nigra* Tapke, Shallow-borne loose smut; general.  
*Ustilago nuda* (Jens.) Rostr., Deep-borne loose smut; general with collections from Alfalfa, Custer, Grady, Payne, Seminole.

## HYACINTHUS

## H. SPP., HYACINTH.

- Aspergillus* sp., Storage rot; Oklahoma.  
*Botrytis* sp., Storage rot; Oklahoma.  
*Penicillium* sp., Storage rot; Oklahoma.

## HYRANGEA

## H. ARBORESCENS L., SMOOTH HYDRANGEA.

- Cercospora hydrangeae* Ell. & Ev., Leaf spot; Payne.  
*Leptosphaeria vagabunda* Sacc.; Adair, Delaware.

## H. MACROPHYLLA (Thunb.) DC., BIGLEAF HYDRANGEA.

- Cercospora hydrangeae* Ell. & Ev., Leaf spot; Payne.

## H. SP.

- Heterodera marioni* (Cornu) Goodey, Root knot; general.

## HYMENOPAPPUS

## H. SCABIOSAEUS L' Her., WHITEBRACKT HYMENOPAPPUS.

- Plasmopara halstedii* (Farl.) Berl. & De Toni, Downy mildew; Murray.  
*Puccinia grindeliae* Pk., Rust.

## HYPOXIS

## H. HIRSUTA (L.) Coville, COMMON GOLDSTARGRASS.

- Cylindrosporium guttatum* Wint., Leaf blotch; Delaware.

## ILEX

- I. DECIDUA Walt., POSSUMHAW.  
*Rhytisma* sp., Tar spot; Comanche.
- I. OPACA Ait., AMERICAN HOLLY.  
*Phyllosticta ilicicola* (Cke. & Ell.) Ell. & Ev., Leaf spot; McIntosh.  
*Phyllosticta opaca* Ell. & Ev., Leaf spot; Oklahoma.
- I. SPP., HOLLY.  
*Alternaria* sp., Leaf spot; Cleveland, Oklahoma.  
*Mucilago spongiosa* (Leyss.) Morg., Smothering; Payne.  
*Phyllosticta* spp., Leaf spot; Cleveland, Delaware, Johnston, McIntosh, Tulsa.

## IPOMOEA

- I. BATATAS (L.) Lam., SWEETPOTATO.  
*Actinomyces ipomoea* Person & Martin, Soil rot or pox; Haskell, Okfuskee, Oklahoma, Sequoyah.  
*Alternaria* sp., Leaf spot; Payne, Stephens.  
*Aspergillus* sp., Storage rot; Seminole.  
*Diaporthe batatatis* (Ell. & Halst.) Harter & Field, Dry rot.  
*Diplodia tubericola* (Ell. & Ev.) Taub., Java black rot; general with collections from McCurtain, Okfuskee, Payne.  
*Disaeta* sp.  
*Endoconidiophora fimbriata* (Ell. & Halst.) Davidson, Black rot; general with collections from Canadian, Craig, Grady, McIntosh, Okfuskee, Oklahoma, Payne, Roger Mills, Seminole, Sequoyah.  
*Erwinia carotovora* (Jones) Winslow et al., Soft rot; Payne, Seminole.  
*Fusarium batatatis* Woll., Stem rot or wilt; general with collections from Caddo, Grady, Haskell, Logan, McCurtain, Okfuskee, Oklahoma, Payne, Pottawatomie, Sequoyah, Tulsa.  
*Fusarium hyperoxysporum* Woll., Stem rot or wilt; general with collection from Seminole.  
*Fusarium oxysporum* Schl., Surface rot; general.  
*Fusarium radiculicola* Woll.; Tulsa.  
*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Creek, Garfield, Haskell, Kiowa, Major, Okfuskee, Oklahoma, Woodward.  
*Monilochaetes infuscans* Ell. & Halst., Scurf; general with collections from Oklahoma, Payne.  
*Pellicularia filamentosa* (Pat.) Rogers, Stem rot; Muskogee.  
*Penicillium* sp., Blue mold; general.

## IPOMOEAE—Continued.

*Phyllosticta batatas* (Thum.) Cke., Leaf spot; general with collection from Woodward.

*Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; southern tier of counties.

*Plenodomus destruens* Harter, Foot rot; general with collection from Muskogee.

*Pythium* sp., Root rot.

*Rhizopus nigricans* Ehrenb. ex Fr., Ring rot; Soft rot; general with collections from Grady, Haskell, Okfuske, Oklahoma, Payne, Seminole, Sequoyah, Tulsa.

*Schizophyllum* sp., Okfuskee.

*Sclerotium bataticola* Taub., Charcoal rot; general.

*Sclerotium rolfsii* Sacc., Southern blight; general with collections from Seminole.

*Septoria bataticola* Taub., Leaf spot; general.

*Trichoderma koningi* Oud., Storage rot.

*Tylenchus dipsaci* (Kuhn) Bast., Stem nematode.

*Nonparasitic*, Fasciation.

## I. HEDERACEA L., IVYLEAF MORNINGGLORY.

*Albugo ipomoeae-panduranae* (Schw.) Swingle, White rust; Payne.

*Coleosporium ipomoeae* (Schw.) Burr., Rust; Payne.

## I. PANDURATA (L.) Mey., BIGROOT MORNINGGLORY: WILD POTATO VINE.

*Albugo ipomoeae-panduranae* (Schw.) Swingle, White rust; Muskogee, Payne.

*Coleosporium ipomoeae* (Schw.) Burr., Rust; Seminole.

## I. PURPUREA (L.) Roth, COMMON MORNINGGLORY.

*Albugo ipomoeae-panduranae* (Schw.) Swingle, White rust; general with collections from Comanche, Logan.

*Coleosporium ipomoeae* (Schw.) Burr., Rust; Tulsa.

*Heterodera marioni* (Cornu) Goodey, Root knot; Logan.

*Puccinia crassipes* Berk. & Curt., Rust.

## I. SP., MORNINGGLORY.

*Coleosporium ipomoeae* (Schw.) Burr., Rust; Payne.

## IRIS

## I. VERSICOLOR L., BLUEFLAG IRIS.

*Botrytis convoluta* Whet. & Dray.; Tulsa.

*Heterosporium iridis* (Faut. & Roum.) Jacq., Leaf spot; Kay, Payne.

## IRIS—Continued.

## I. SPP., IRIS.

*Colletotrichum lilacearum* Ferraris, Anthracnose; Payne.

*Didymellina iridis* (Desm.) v. Hohnel, Leaf spot; general with collections from Payne, Seminole.

*Erwinia carotovora* (Jones) Winslow et al., Soft rot; Tulsa.

*Heterodera marioni* (Cornu) Goodey, Root knot; Oklahoma.

*Pseudomonas marginata* (McCul.) Stapp, Bacterial spot: Scab.

*Puccinia iridis* (DC.) Wallr., Rust; Oklahoma.

## IVA

## I. CILIATA Willd.

*Cuscuta indecora* Choisy, Dodder; Beckham.

## JASMINUM

## J. FLORIDUM Bunge, SHOWY JASMINE.

*Coniothyrium* sp., Dieback; Payne.

## J. HUMILE L., ITALIAN JASMINE.

*Agrobacterium tumefaciens* (E.F.Sm. & Towns.) Conn, Crown gall; Oklahoma.

*Coniothyrium* sp., Dieback; Payne.

*Rhizoctonia solani* Kuhn, Seedling blight; Oklahoma.

## J. NUdiflorum Lindl., WINTER JASMINE.

*Coniothyrium* sp., Dieback; Payne.

## JUGLANS

## J. NIGRA L., EASTERN BLACK WALNUT.

*Cylindrosporium juglandis* Wolf, Leaf spot; Payne.

*Gloeosporium* sp., Anthracnose; Payne.

*Gnomonia leptostyla* (Fr.) Ces. & De Not., Leaf spot; Payne.

*Marssonina juglandis* (Lib.) Magn., Leaf spot; Payne.

*Phoradendron flavescens* (Pursh) Nutt., Mistletoe; general.

## J. REGIA L., PERSIAN WALNUT.

*Cylindrosporium juglandis* Wolf, Leaf spot; Lincoln.

*Marssonina juglandis* (Lib.) Magn., Leaf spot; Johnston, Oklahoma.

*Phleospora multimaculans* Heald & Wolf, Leaf spot.

*Nectria cinnabarina* Tode ex Fr., Canker; Oklahoma.

*Xanthomonas juglandis* (Pierce) Dowson, Bacterial blight; Kingfisher.

## JUNIPERUS

- J. CHINENSIS var. PFITZERIANA Spaeth, PFITZER CEDAR.  
*Gymnosporangium juniperi-virginianae* Schw., Rust gall; Haskell.
- J. MEXICANA Spreng., MEXICAN JUNIPER.  
*Gymnosporangium exiguum* Kern, Leaf rust; Murray.
- J. MONOSPERMA (Engelm.) Sarg., ONESEED JUNIPER.  
*Gymnosporangium* sp., Rust; Payne.
- J. SCOPULORUM Sarg., ROCKYMOUNTAIN JUNIPER.  
*Gymnosporangium betheli* Kern, Rust gall; Haskell.  
*Gymnosporangium exiguum* Kern, Leaf rust.
- J. VIRGINIANA L., EASTERN REDCEDAR.  
*Cytospora* sp., Needle blight; Atoka.  
*Daedalea juniperina* Murr., Wood rot; Payne.  
*Gymnosporangium clavipes* Cke. & Pk., Rust gall; Payne.  
*Gymnosporangium floriforme* Thaxt., Rust.  
*Gymnosporangium globosum* Farl., Rust gall; Haskell.  
*Gymnosporangium juniperi-virginianae* Schw., Rust gall; Payne.  
*Gymnosporangium nidus-avis* Thaxt., Rust gall; Payne.  
*Gymnosporangium* spp., Rust; Alfalfa, Cleveland, Payne.  
*Sclerotium bataticola* Taub., Charcoal rot; Atoka.  
*Sphaeropsis* sp., Canker; Payne.
- J. VIRGINIANA var. CANAERTI Senecl., CANAERT EASTERN REDCEDAR.  
*Gymnosporangium juniperi-virginianae* Schw., Rust gall; Haskell.
- J. VIRGINIANA var. GLAUCA Carr., SILVER EASTERN REDCEDAR.  
*Gymnosporangium juniperi-virginianae* Schw., Rust gall; Haskell.
- J. VIRGINIANA var. GLOBOSA Beiss., GLOBE EASTERN REDCEDAR.  
*Gymnosporangium floriforme* Thaxt., Rust gall; Payne.  
*Gymnosporangium juniperi-virginianae* Schw., Rust gall; Haskell.
- J. VIRGINIANA var. PYRAMIDALIS Carr., PYRAMIDAL EASTERN REDCEDAR.  
*Gymnosporangium juniperi-virginianae* Schw., Rust gall; Haskell.

## JUNIPERUS—Continued.

## J. SPP., JUNIPER: CEDAR.

*Alternaria* sp., Leaf spot; Payne, Seminole.

*Cercospora sequoiae* var. *juniperi* Ell. & Ev., Leaf spot; Tulsa.

*Cyanospora albicedrae* Heald & Wolf, Whitening; Blaine.

*Gloeosporium* sp., Anthracnose; Bryan.

*Gymnosporangium effusum* Kern, Rust gall; Okmulgee.

*Gymnosporangium* spp., Rust; Muskogee, Okmulgee, Washita.

*Phomopsis juniperovora* Hahn, Nursery blight; Caddo, Cleveland, Creek, Major, Payne, Tulsa, Woods.

*Phymatotrichum omnivorum* (Shear) Dug., Root rot.

## JUSSIAEA

## J. DECURRENS (Walt.) DC., WATERPRIMROSE.

*Alternaria* sp., Leaf spot; Muskogee.

## J. DIFFUSA Forsk., FLOATING WATERPRIMROSE.

*Cercospora jussiaeae* Atk., Leaf spot; Payne.

## KNIPHOFIA

## K. ELEGANS Engl., HOTPOKER TORCHLILY.

*Colletotrichum lileacearum* Ferraris, Anthracnose; Payne.

## KOELERIA

## K. CRISTATA (L.) Pers., PRAIRIE JUNEGRASS.

*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Cleveland.

## KOELREUTERIA

## K. PANICULATA Laxm., PANICLED GOLDENRAINTREE.

*Cytosporina* sp., Payne.

*Nectria cinnabarina* Tode ex. Fr., Canker; Payne.

*Phyllosticta* sp., Leaf spot; Payne.

## KOLKWTZIA

## K. AMABILIS Graebn., BEAUTYBUSH.

*Cercospora kolkwitziae* Ray, Leaf spot; Payne.

*Dothiorella* sp.; Payne.

## KRIGIA

## K. SP., DWARFDANDELION.

*Bremia lactucae* Regel, Downy mildew; Payne.

## LABURNUM

## L. ANAGYROIDES Medic, GOLDENCHAIN LABURNUM.

*Cercospora laburni* Ray, Leaf spot; Payne.

## LACTUCA

- L. CANADENSIS L., CANADA LETTUCE.  
*Septoria lactucicola* Ell. & Mart., Leaf spot; Murray, Payne.
- L. SATIVA L., GARDEN LETTUCE.  
*Alternaria* sp., Leaf spot; Seminole.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Craig, Logan.  
*Pythium* sp., Root rot; Payne.  
*Sclerotium sclerotiorum* (Lib.) Mass., Drop; Tulsa.  
*Virus*, Aster yellows; Tulsa.  
*Nonparasitic*, Tipburn; Payne.
- L. SP., CELTUCE.  
*Bremia lactucae* Reg., Downy mildew; Payne.

## LAGERSTROEMIA

- L. INDICA L., COMMON CRAPEMYRTLE.  
*Cuscuta* sp., Dodder; Harper.  
*Erysiphe lagerstroemiae* West, Powdery mildew; Bryan, Carter, Oklahoma, Payne.  
*Phyllosticta lagerstroemiae* Ell. & Ev., Leaf spot.

## LAMIMUM

- L. AMPLEXICAULE L., HENBIT DEADNETTLE.  
*Erysiphe cichoracearum* DC., Powdery mildew; Payne.  
*Septoria lamii* Pass., Leaf spot; Payne.

## LAPORTEA

- L. CANADENSIS (L.) Gaud., CANADA WOODNETTLE.  
*Gloeosporium laportae* Pk., Leaf spot; Osage, Washington.

## LATHYRUS

- L. LATIFOLIUS L., PERENNIAL SWEETPEA.  
*Cercospora lathyrina* Ell. & Ev., Leaf spot; Payne.
- L. ODORATUS L., SWEETPEA.  
*Corynebacterium fascians* (Tilford) Dowson, Fasciation; Payne.  
*Erysiphe polygoni* DC., Powdery mildew; Payne.  
*Heterodera marioni* (Cornu) Goodey, Root knot; general.  
*Heterosporium* sp., Leaf spot; Oklahoma.  
*Phytophthora lathyri* Manns & Taub., Payne, Seminole.  
*Rhizoctonia solani* Kuhn, Damping off; Oklahoma.

## LAVANDULA

## L. SP., LAVENDAR.

*Septoria lavandulae* Desm., Leaf spot; Oklahoma.

## LEPIDIUM

## L. VIRGINICUM L., VIRGINIA PEPPERWEED.

*Cuscuta arvensis* Beyrich, Dodder; Payne.

*Peronospora parasitica* (Pers.) Fr., Downy mildew; Noble, Payne.

## LEPTOCHLOA

## L. FILIFORMIS (Lam.) Beauv., RED SPRANGLETOP.

*Puccinia bartholomaei* Diet., Leaf rust; Haskell, Payne.

## LEPTOLOMA

## L. COGNATUM (Schult.) Chase, FALL WITCHGRASS.

*Puccinia imposita* Arth., Rust; general with collection from Payne.

## LESPEDEZA

## L. HIRTA (L.) Hornem., HAIRY LESPEDEZA.

*Uromyces lespedezae-procumbentis* (Schw.) Curt., Rust; Le Flore.

## L. INTERMEDIA (Wats.) Britt., WAND LESPEDEZA.

*Uromyces lespedezae-procumbentis* (Schw.) Curt., Rust; Logan, Payne.

## L. PROCUMBENS Michx., TRAILING LESPEDEZA.

*Uromyces lespedezae-procumbentis* (Schw.) Curt., Rust; Payne.

## L. REPENS (L.) Bart., CREEPING LESPEDEZA.

*Uromyces lespedezae-procumbentis* (Schw.) Curt., Rust; Choctaw.

## L. STUVEI Nutt., STUVE'S LESPEDEZA.

*Uromyces lespedezae-procumbentis* (Schw.) Curt., Rust; Payne.

## L. VIOLACEA L., VIOLET LESPEDEZA.

*Darluca filum* (Biv.) Cast., Parasitic on

*Uromyces lespedezae-procumbentis* (Schw.) Curt on living leaves; McCurtain.

*Uromyces lespedezae-procumbentis* (Schw.) Curt., Rust; McCurtain, Payne.

## L. VIRGINICA (L.) Britton, SLENDER LESPEDEZA.

*Uromyces lespedezae-procumbentis* (Schw.) Curt., Rust; Craig, Lincoln, Osage.

## LESPEDeza—Continued.

## L. SPP., LESPEDeza.

*Agrobacterium tumefaciens* (E.F.Sm.& Town.) Conn,  
Crown gall; Logan.

*Cuscuta arvensis* Beyrich, Dodder; Muskogee.

## LIATRIS

## L. PUNCTATA Hook., DOTTED GAYFEATHER.

*Cuscuta glomerata* Choisy, Dodder; Cleveland.

## L. SCARIOsa (L.) Willd., TALL GAYFEATHER.

*Erysiphe cichoracearum* DC., Powdery mildew; Payne.

## LIGUSTRUM

## L. AMURENSE Carr., AMUR PRIVET.

*Cercospora adusta* Heald & Wolf, Leaf spot; Payne.

*Microsphaera alni* DC. ex Wint., Powdery mildew;  
Payne.

## L. IBOLIUM Coe, IBOLIUM PRIVET.

*Cercospora adusta* Heald & Wolf., Leaf spot; Payne.

## L. OVALIFOLIUM Hassk., CALIFORNIA PRIVET.

*Cercospora adusta* Heald & Wolf, Leaf spot; Payne.

## L. VULGARE L., EUROPEAN PRIVET.

*Armillaria mellea* Vahl ex Fr., Mushroom root rot;  
Logan.

*Coniothyrium* sp.; Garfield.

*Cytospora* sp.; Payne.

*Fusarium* sp., Root rot; Payne.

*Glomerella cingulata* (Ston.) Spauld.& Schrenk,

Anthrachnose; Alfalfa, Payne.

*Nectria cinnabarina* Tode ex Fr., Canker; Payne.

## L. SP., PRIVET.

*Phymatotrichum omnivorum* (Shear) Dug., Root rot.

## LILIUM

## L. MONADELPHUM Marsh.&amp; Bieb., CAUCASIAN LILY.

*Colletotrichum liliacearum* Ferraris, Anthrachnose;  
Payne.

## L. REGALE Wils., REGAL LILY.

*Botrytis* sp., Blight; Kay.

## LINARIA

## L. CANADENSIS (L.) Dumont, OLDFIELD TOADFLAX.

*Peronospora linariae* Fckl., Downy mildew; Payne.

## LINUM

- L. USITATISSIMUM L., COMMON FLAX.  
*Fusarium lini* Bolley, Wilt.  
*Melampsora lini* (Pers.) Lev., Rust.  
*Rhizoctonia solani* Kuhn, Root rot; Payne.  
*Septoria linicola* (Speg.) Garassini, Pasm disease;  
Payne, Washington.  
*Nonparasitic*, Heat canker; Mayes.

## LIPPIA

- L. LANCEOLATA Michx., FOGFRUIT.  
*Cercospora lippiae* Ell.& Ev., Leaf spot; Kingfisher.

## LIQUIDAMBAR

- L. STYRACIFLUA L., AMERICAN SWEETGUM.  
*Peltella* sp., Leaf spot; McCurtain.  
*Septoria liquidambaris* Cke.& Ell., Leaf spot; Le Flore.

## LOBELIA

- L. CARDINALIS L., CARDINALFLOWER.  
*Septoria lobeliae* Pk., Leaf spot; Cleveland, Delaware.  
L. PUBERULA Michx., DOWNY LOBELIA.  
*Cercospora ferruginea* Fckl., Leaf spot; Creek.  
L. SIPHILITICA L., BIGBLUE LOBELIA.  
*Septoria lobeliae* Pk., Leaf spot; Murray.

## LOLIUM

- L. MULTIFLORUM Lam., ITALIAN RYEGRASS.  
*Claviceps purpurea* (Fr.) Tul., Ergot.  
*Puccinia coronata* Cda., Crown rust; Bryan.  
L. PERENNE L., PERENNIAL RYEGRASS.  
*Claviceps purpurea* (Fr.) Tul., Ergot; Payne.  
*Puccinia coronata* Cda., Crown rust; Payne.  
*Puccinia rubigo-vera agropyri* (Erikss.) Arth., Leaf  
rust; Payne.

## LOMATIUM

- L. DAUCIFOLIUM (Nutt.) Coult.& Rose, CARROT-  
LEAVED LOMATIUM.  
*Puccinia jonesii* Peck, Rust; Payne.  
L. ORIENTALE Coult.& Rose, LOMATIUM.  
*Puccinia jonesii* Peck, Rust.

## LONICERA

- L. HECKROTTI Rehd., EVERBLOOMING HONEY-  
SUCKLE.  
*Microsphaeraalni* DC. ex Wint., Powdery mildew;  
Payne.

## LONICERA—Continued.

- L. ORIENTALIS var. CAUCASICA (Pall.) Zabel, BUCK-THORN HONEYSUCKLE.  
*Phyllosticta* sp., Leaf spot; Payne.
- L. SP., HONEYSUCKLE.  
*Phyllosticta lonicerae* Westd., Leaf spot; Oklahoma.

## LOTUS

- L. AMERICANUS (Nutt.) Bisch., SPANISHCLOVER DEERVETCH.  
*Cercospora* sp., Leaf spot; Garvin, Murray.

## LUDVIGIA

- L. ALTERNIFOLIA L., SEEDBOX.  
*Cercospora ludwigiae* Atk., Leaf spot; Ottawa.

## LYCIUM

- L. PALLIDUM Miers, PALE WOLFBERRY.  
*Cercospora lycii* Ell. & Halst., Leaf spot; Payne.  
*Puccinia tumidipes* Pk., Rust; Payne.

## LYCOPERSICON

- L. ESCULENTUM Mill., COMMON TOMATO.  
*Alternaria solani* (Ell. & Mart.) Jones & Grout, Early blight; general with collections from Delaware, Oklahoma, Osage, Payne, Wagoner.  
*Alternaria tomato* (Cke.) Weber, Nailhead spot; Oklahoma, Seminole, Woodward.  
*Bacterium punctulans* M.K. Bryan, Bacterial speck; Muskogee, Oklahoma.  
*Bacterium solanacearum* E.F.Sm., Bacterial wilt; general with collections from Creek, Le Flore, Ottawa, Payne, Seminole, Tulsa.  
*Cladosporium fulvum* Cke., Leaf mold; Payne.  
*Colletotrichum phomoides* (Sacc.) Chester, Anthracnose; Cleveland, Payne, Seminole, Washita.  
*Corynebacterium michiganense* (E.F.Sm.) Jensen, Bacterial canker; general with collections from Bryan, Delaware, Logan, Payne, Seminole, Tulsa, Woods.  
*Fusarium oxysporum* f. *lycopersici* (Sacc.) Snyder & Hansen, Wilt; Atoka, Bryan, Cleveland, Haskell, Le Flore, Lincoln, Noble, Okmulgee, Oklahoma, Payne, Seminole, Tulsa, Woodward.  
*Fusarium* sp., Fruit rot; Payne.

## LYCOPERSICON—Continued.

*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Adair, Beckham, Caddo, Cherokee, Craig, Ellis, Garfield, Oklahoma, Payne, Seminole, Tillman, Tulsa, Washington, Woods.

*Pellicularia filamentosa* (Pat.) Rogers, Damping off; Okmulgee.

*Phoma destructiva* Plowr., Phoma rot.

*Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; Carter.

*Phytophthora terrestris* Sherb., Buckeye rot; Sequoyah.

*Pythium aphanidermatum* (Edson) Fitz., Damping off; Okmulgee.

*Rhizoctonia solani* Kuhn, Damping off; Okmulgee.

*Sclerotium rolfsii* Sacc., Southern blight; Muskogee.

*Septoria lycopersici* Speg., Leaf spot; general with collections from Adair, Alfalfa, Blaine, Le Flore, Oklahoma, Osage, Payne, Tillman, Tulsa, Woodward.

*Xanthomonas vesicatoria* (Doidge) Dowson, Bacterial spot; Adair, Cleveland, Payne, Seminole, Woodward.

*Virus*, Curley top: Western yellow blight; Payne.

*Virus*, Double-virus streak; Oklahoma, Payne.

*Virus*, Single-virus streak; Payne.

*Virus*, Tomato mosaic; general with collections from Logan, Osage, Payne.

*Nonparasitic*, Blossom-end rot; general with collections from Payne, Pittsburg, Seminole, Tulsa.

*Nonparasitic*, Catface; general with collection from Payne.

## LYCOPUS

L. AMERICANUS Muhl., AMERICAN BUGLEWEED.

*Phyllosticta decidua* Ell.& Kell., Leaf spot; Woods.

## MAGNOLIA

M. ACUMINATA L., CUCUMBERTREE.

*Cladosporium fasciculatum* Cda.; Payne.

M. SPP., MAGNOLIA.

*Septoria magnoliae* Cke., Leaf spot; Atoka, Bryan, Hughes, Pittsburg.

*Nonparasitic*, Winter browning; Mayes.

## MAHONIA

M. AQUIFOLIUM (Pursh) Nutt., OREGONGRAPE.

*Coniothyrium* sp., Leaf spot; Comanche.

*Phyllosticta* sp., Leaf spot; Oklahoma.

## MALUS

- M. BACCATA (L.) Borkh., SIBERIAN CRABAPPLE.  
*Gymnosporangium globosum* Farl., Rust; Creek, Garfield.
- M. IOENSIS (Wood) Britton, PRAIRIE CRABAPPLE.  
*Gymnosporangium juniperi-virginianae* Schw., Rust; Payne.
- M. SYLVESTRIS Mill., APPLE.  
*Agrobacterium rhizogenes* (Riker et al.) Conn, Hairy root; Le Flore.  
*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; general with collections from Caddo, Cherokee, Haskell, Payne, Seminole, Woods.  
*Armillaria mellea* Vahl ex Fr., Mushroom root rot; Bryan, Cherokee.  
*Botryosphaeria ribis* (Tode ex Fr.) Gross. & Dug., Black rot; Dewey, Nowata, Payne.  
*Cephalothecium roseum* Cda., Pink mold rot; Payne.  
*Clitocybe monadelpha* (Morgan) Sacc., Root rot.  
*Cytospora leucostoma* Sacc., Dieback; general with collections from Payne, Seminole.  
*Erwinia amylovora* (Burr.) Winslow, Fire blight; general with collections from Adair, Alfalfa, Carter, Creek, Delaware, Dewey, Garfield, Haskell, Jefferson, Le Flore, McIntosh, Noble, Okmulgee, Payne, Rogers, Seminole, Sequoyah, Wagoner, Washita.  
*Fusicladium dendriticum* (Wallr.) Fckl., Scab; general with collections from Payne.  
*Gloeodes pomigena* (Schw.) Colby, Sooty blotch; general with collections from Garvin, Haskell, Payne.  
*Glomerella cingulata* (Ston.) Spauld. & Schrenk, Bitter rot; general with collection from Payne.  
*Gymnosporangium juniperi-virginianae* Schw., Rust; Cherokee, Creek, Dewey, Lincoln, Muskogee, Okmulgee, Osage, Pawnee, Payne, Washita.  
*Leptothyrium pomi* (Mont. & Fr.) Sacc., Fly speck; general with collections from Cherokee, Delaware, Garvin, Payne.  
*Monilinia fructicola* (Wint.) Honey, American brown rot; Bryan, Garvin, Murray, Okfuskee, Tulsa.  
*Neofabraea malicorticis* Jack., Northwestern anthracnose; Payne.  
*Nummularia discreta* (Schw.) Tul., Blister canker; Payne.  
*Penicillium* sp., Storage rot; Payne.  
*Phoma pomi* Pass., Fruit spot; Payne.

## MALUS—Continued.

*Phyllosticta solitaria* Ell.& Ev., Blotch; Adair, Alfalfa, Bryan, Canadian, Coal, Comanche, Creek, Delaware, Dewey, Garfield, Garvin, Haskell, Johnston, Kay, Le Flore, Lincoln, Major, McClain, McCurtain, Murray, Noble, Nowata, Okfuskee, Oklahoma, Okmulgee, Pawnee, Payne, Pittsburg, Pontotoc, Seminole, Tillman, Tulsa, Wagoner, Woods, Woodward.

*Physalospora obtusa* (Schw.) Cke., Black rot: Frog eye leaf spot; general with collections from Adair, Craig, Delaware, Dewey, Garvin, Grant, Lincoln, Mayes, McCurtain, Okfuskee, Payne, Pittsburg, Seminole, Tulsa.

*Podosphaera leucotricha* (Ell.& Ev.) Salm., Powdery mildew; Payne.

*Polyporus versicolor* L. ex Fr., Heartrot; Payne.

*Valsa ambiens* Pers. ex Fr., Canker & Dieback; Payne.

*Valsa leucostoma* Pers. ex Fr., Canker; Payne.

*Venturia inaequalis* (Cke.) Wint., Scab; general with collections from Adair, Bryan, Cherokee, Garvin, Haskell, Oklahoma, Pawnee, Payne, Seminole, Woods.

*Xylaria mali* Fromme, Black root rot; Alfalfa, Delaware, Seminole, Pottawatomie.

*Nonparasitic*, Bitter pit: Water core.

*Nonparasitic*, Johnathon spot.

*Nonparasitic*, Late frost injury.

*Undetermined*, Measles.

## MALVA

M. ROTUNDIFOLIA L., RUNNING MALLOW.

*Puccinia malvacearum* Bert., Rust; Payne.

## MANISURIS

M. CYLINDRICA (Michx.) Kuntze, CAROLINA JOINT-TAIL.

*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.

*Septoria* sp., Leaf spot; Woodward.

## MARRUBIUM

M. VULGARE L., COMMON HOARHOUND.

*Cercospora marrubii* Tharp, Leaf spot; Payne.

## MEDICAGO

M. HISPIDA Gaertn., CALIFORNIA BURCLOVER.

*Colletotrichum trifolii* Bain, Anthracnose; Payne.

M. LUPULINA L., BLACK MEDIC.

*Uromyces striatus medicaginis* (Pass.) Arth., Rust; Payne.

## M. SATIVA L., ALFALFA.

- Agrobacterium tumefaciens* (E.F.Sm.& Town.) Conn, Crown gall.
- Alternaria* sp., Sooty mold; Grady.
- Ascochyta imperfecta* Pk., Black stem; Alfalfa, Blaine, Caddo, Canadian, Creek, McCurtain, Tillman.
- Cephalobus elongatus* de Man, Nematode.
- Cercospora zebrina* Pass., Leaf spot; McCurtain, Payne.
- Colletotrichum trifolii* Bain, Anthracnose; Garvin, Grant, Lincoln, Okfuskee, Payne.
- Corynebacterium insidiosum* (McCul.) Jensen, Bacterial wilt; general with collections from Cotton, Creek, Garvin, Grant, Lincoln, Mayes, McClain, McCurtain, Murray, Oklahoma, Payne, Seminole, Texas, Tillman, Washita.
- Cuscuta indecora* Choisy, Dodder; Garfield.
- Cuscuta* sp., Dodder; Payne, Tillman.
- Empusa aphidis* Hoffm., Parasitic on *Illinoia pisi* on living leaves; Payne.
- Fusarium* spp., Root rot & Crown rot; general with collections from Caddo, Cherokee, Delaware, Garvin, Kingfisher, Lincoln, Okfuskee, Oklahoma.
- Gloeosporium medicaginis* Ell.& Kell. Anthracnose; Muskogee, Seminole.
- Helicobasidium purpureum* (Tul.) Pat., Violet root rot; Garvin, Grady, Kingfisher, Okfuskee, Oklahoma.
- Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Alfalfa, Haskell, Okfuskee.
- Peronospora trifoliorum* DeBy., Downy mildew; Okfuskee, Payne, Rogers.
- Phoma medicaginis* Malbr.& Roum., Black stem; general with collection from Payne.
- Phyllosticta medicaginis* (Fckl.) Sacc., Leaf spot; Payne.
- Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; general in southern Oklahoma.
- Pleosphaerulina briosiana* Poll., Leaf spot; Payne.
- Pseudomonas medicaginis* Sackett, Bacterial stem blight; Alfalfa, Canadian, Garvin, Harmon, Hughes, Okfuskee, Oklahoma, Payne, Seminole.
- Pseudopeziza medicaginis* (Lib.) Sacc., Leaf spot; spot; Alfalfa, McClain.
- Pyrenopeziza medicaginis* Fckl., Leaf spot; Payne.
- Rhizoctonia solani* Kuhn, Damping off; Delaware, Johnston.
- Sclerotium bataticola* Taub., Charcoal rot; Woodward.

## MEDICAGO—Continued.

*Sporonema phacidioides* Desm., Leaf spot; Canadian, Payne.

*Tylenchus dipsaci* (Kuhn) Bast., Stem nematode; Garvin, Payne, Pottawatomie, Washita.

*Uromyces striatus medicaginis* (Pass.) Arth., Rust; Carter, Cleveland, McCurtain, Muskogee, Noble, Oklahoma, Payne, Seminole, Tillman, Woodward.

*Virus*, Alfalfa mosaic; general with collections from Canadian, Payne, Seminole, Washita.

*Nonparasitic*, Heat & Drought injury; Kiowa.

*Nonparasitic*, Winter injury; Payne.

## MELIA

M. AZEDARACH L., CHINABERRY.

*Nectria cinnabarina* Tode ex Fr., Dieback; Payne.

## MELICA

M. NITENS (Scribn.) Nutt., THREEFLOWER MELIC.

*Colleotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Cherokee.

## MELILOTUS

M. ALBA Desr., WHITE SWEETCLOVER.

*Ascochyta pisi* Lib., Leaf spot & Black stem; Blaine.

*Cercospora davisii* Ell. & Ev., Leaf spot; Payne, Seminole.

*Colletotrichum trifolii* Bain, Anthracnose; Delaware.

*Fusarium* sp., Root rot; Delaware.

*Mycosphaerella lethalis* R.E.Stone, Black stem; Seminole.

*Phytomonas lathryi* Manns & Taub., Streak; Seminole.

*Virus*, Mosaic; Canadian.

M. OFFICINALIS (L.) Lam., YELLOW SWEETCLOVER.

*Cercospora davisii* Ell. & Ev., Leaf spot; Payne.

## MIMOSA

M. SP., MIMOSA.

*Nectria cinnabarina* Tode ex Fr., Canker; Payne.

## MONARDA

M. CLINOPODIOIDES A. Gray, BEEBALM.

*Cercospora* sp., Leaf spot; Payne.

M. DISPERSA Small, PURPLE LEMON BEEBALM.

*Phyllosticta decidua* Ell. & Kell., Leaf spot; Murray.

M. FISTULOSA var. MOLLIS (L.) Benth., SOFT WILDBERGAMOT BEEBALM.

*Puccinia menthae* Pers., Rust; Adair.

## MONARDA—Continued.

## M. PUNCTATA L., SPOTTED BEEBALM.

*Phyllosticta decidua* Ell. & Kell., Leaf spot; McCurtain.

## MONOLEPIS

## M. NUTTALLIANA (R. &amp; S.) S. Wats., NUTTALL MONOLEPIS.

*Peronospora effusa* (Grev.) Rabh., Downy mildew; Payne.

## MORUS

## M. ALBA L., WHITE MULBERRY.

*Armillaria mellea* Vahl ex Fr., Root rot.

*Cercospora moricola* Cke., Leaf spot; Payne.

*Cercospora mori* Pk., Leaf spot; Haskell.

*Cylindrosporium ulmicola* Ell. & Ev., Leaf spot;

Comanche, Payne.

*Heterodera marioni* (Cornu) Goodey, Root knot; Haskell, Payne.

*Phymatotrichum omnivorum* (Shear) Dug., Root rot.

*Pseudomonas mori* (Boyer & Lambert) F.L. Stevens, Bacterial blight; Canadian, Muskogee, Payne.

## M. RUBRA L., RED MULBERRY.

*Cylindrosporium mori* Berl., Leaf spot; Payne.

*Cylindrosporium ulmicola* Ell. & Ev., Leaf spot; Payne.

## M. SP., MULBERRY.

*Sphaerosopsis mori* Ell. & Ev., Canker; Payne.

## MUHLENBERGIA

## M. CAPILLARIS (Lam.) Trin., HAIRAWN MUHLY.

*Colletotrichum graminicolum* (Ces.) G.W. Wils.,

Anthracnose; Payne.

*Phyllachora vulgata* Theiss. & Syd., Black spot; Payne.

## M. MEXICANA (L.) Trin., WIRESTEM MUHLY.

*Colletotrichum graminicolum* (Ces.) G.W. Wils.,

Anthracnose; Payne.

*Puccinia schedonnardi* Kell. & Swingle, Rust; Cleveland.

## M. RACEMOSA (Michx.) B.S.P., GREEN MUHLY.

*Colletotrichum graminicolum* (Ces.) G.W. Wils.,

Anthracnose; Payne.

## M. SCHREBERI Gmel., NIMBLEWILL.

*Puccinia schedonnardi* Kell. & Swingle, Rust.

## M. SOBOLIFERA (Muhl.) Trin., ROCK MUHLY.

*Leptosphaeria muhlenbergiae* (Ell.) Niessl, Muskogee.

## MUNROA

- M. SQUARROSA (Nutt.) Torr., FALSE BUFFALOGRASS.  
*Septoria munroae* Ell.& Barth., Leaf spot; Beaver.

## MYRICA

- M. CERIFERA L., SOUTHERN WAXMYRTLE.  
*Ramularia moniloides* Ell.& Mart., Leaf spot; Payne.

## NANDINA

- N. DOMESTICA Thunb., NANDINA.  
*Cercospora nandinae* Nagatomo, Leaf spot; Payne.  
*Glomerella cingulata* (Ston.) Spauld.& Schrenk,  
Anthracnose; Payne.  
*Phyllosticta nandinae* Tassi, Leaf spot; Oklahoma.

## NARCISSUS

- N. SPP., NARCISSUS.  
*Aspergillus* sp., Bulb rot; Oklahoma.  
*Botrytis* sp., Blight.  
*Penicillium* sp., Bulb rot; Oklahoma.  
*Virus*, Narcissus mosaic; Payne.

## NELUMBO

- N. LUTEA (Willd.) Pers., AMERICAN LOTUS: WATER  
CHINKAPIN.  
*Alternaria nelumbii* Enlows & Rand, Leaf spot; Payne.

## NICOTIANA

- N. TABACUM L., COMMON TOBACCO.  
*Bacterium solanacearum* E.F.Sm., Bacterial wilt.  
*Pseudomonas tabaci* (Wolf & Foster) Stapp, Fire  
blight.  
*Thielavia basicola* (B.& Br.) Zopf, Root rot.  
*Virus*, Tobacco mosaic.

## NOTHOSCORDUM

- N. BIVALVE (L.) Britton, YELLOW FALSEGARLIC.  
*Colletotrichum* sp., Anthracnose; Payne.  
*Uromyces hordeinus* Arth., Rust.  
*Uromyces primaverilis* Speg., Rust; Payne.

## NYMPHAEA

- N. ODORATA Ait., AMERICAN WATERLILY.  
*Entyloma nymphaeae* (Cunn.) Setch., Leaf smut;  
Payne.

## OENOTHERA

- O. BIENNIS L., COMMON EVENINGPRIMROSE.  
*Septoria oenotherae* Westd., Leaf spot; Cleveland.  
*Uromyces plumbarius* Peck, Rust.
- O. LACINIATA Hill, CUTLEAF EVENINGPRIMROSE.  
*Peronospora arthuri* Farl., Downy mildew; Payne.  
*Septoria oenotherae* Westd., Leaf spot; Creek, Greer,  
Murray, Muskogee, Payne.  
*Synchytrium fulgens* Schroet.; Payne.  
*Uromyces plumbarius* Peck, Rust.
- O. MISSOURIENSIS Sims, OZARK SUNDROPS.  
*Septoria oenotherae* Westd., Leaf spot; Ellis, McClain,  
Noble, Payne.
- O. MISSOURIENSIS var. INCANA A. Gray.  
*Septoria oenotherae* Westd., Leaf spot; Ellis.
- O. OKLAHOMENSIS (Norton) Lev., OKLAHOMA EVE-  
NINGPRIMROSE.  
*Septoria oenotherae* Westd., Leaf spot; Payne.
- O. PALLIDA Lindl., PALE EVENINGPRIMROSE.  
*Septoria oenotherae* Westd., Leaf spot; McClain.
- O. RHOMBIPETALA Nutt., RHOMBICPETALED  
EVENINGPRIMROSE.  
*Septoria oenotherae* Westd., Leaf spot; Oklahoma.
- O. SERRULATA Nutt., SERRATELEAF EVENING-  
PRIMROSE.  
*Pestalotia oenotherae* Ell.& Barth., Leaf spot; Payne.  
*Septoria oenotherae* Westd., Leaf spot; Payne.
- O. SPECIOSA Nutt., SHOWY EVENINGPRIMROSE.  
*Septoria oenotherae* Westd., Leaf spot; Caddo, Grady,  
Kay, Murray, Pawnee, Payne.
- O. SPP., EVENINGPRIMROSE.  
*Cuscuta arvensis* Beyrich, Dodder; Oklahoma.  
*Puccinia extensicola oenotherae* (Mont.) Arth., Rust.

## OPUNTIA

- O. RAFINESQUII Engelm., COMMON PRICKLYPEAR.  
*Erwinia cactida* (Johnst.& Hitch.) Winslow et al.,  
Bacterial rot; general.  
*Phoma* sp., Stem rot; general with collection from  
Osage.  
*Phyllosticta concava* Seaver, Leaf spot; Oklahoma.

## ORNITHOGALUM

- O. THYRSOIDES Jacq. var. AUREUM, GOLDEN CAPE CHINKERICHEE.

*Virus*, Ornithogalum mosaic; Payne.

## OXALIS

- O. CORNICULATA L., CREEPING OXALIS.  
*Puccinia andropogonis oxalidis* Arth., Rust; southern part of state.
- O. FILIPES Small, SLENDER YELLOW WOODSORREL.  
*Puccinia sorghi* Schw., Rust.
- O. VIOLACEA L., VIOLET WOODSORREL.  
*Puccinia sorghi* Schw., Rust; Pawnee, Payne.

## PAEONIA

- P. SPP., PEONY.  
*Alternaria* sp., Leaf spot; Murray.  
*Botrytis paeoniae* Oud., Blight; Murray.  
*Cercospora paeoniae* Tehon & Daniels, Leaf spot; Tulsa.  
*Cladosporium paeoniae* Pass., Leaf blotch; Oklahoma.  
*Discosia artocreas* Tode ex Fr., Leaf spot; Murray.  
*Phyllosticta commonsii* Ell. & Ev., Leaf spot; Garfield.

## PANICUM

- P. BOSCHII var. MOLLE (Vasey) Hitchc. & Chase.  
*Colletotrichum graminicolum* (Ces.) G.W. Wils., Anthracnose; Payne.
- P. CAPILLARE L., COMMON WITCHGRASS.  
*Puccinia emaculata* Schw., Rust.
- P. CLANDESTINUM L., CORN GRASS: DEER TONGUE GRASS.  
*Septoria* sp., Leaf spot; Payne.
- P. COMMUTATUM Schultes, VARIABLE PANICUM.  
*Phyllachora punctum* (Schw.) Orton, Black spot; McCurtain.
- P. HUACHUCAE var. FASCICULATUM (Torr.) Hubb.  
*Phyllachora punctum* (Schw.) Orton, Black spot; Cherokee.
- P. OBTUSUM HBK., VINE-MESQUITE.  
*Phyllachora wilsoni* Orton, Black spot; Lincoln, Payne.  
*Phyllosticta* sp., Leaf spot; Payne.
- P. TENNESSEENSE Ashe, TENNESSEE PANICUM.  
*Phyllachora punctum* (Schw.) Orton, Black spot; Payne.
- P. TEXANUM Buckl., TEXAS PANICUM.  
*Chaetomella atra* Fekl., Canadian.

PANICUM—Continued.

P. VIRGATUM L., SWITCHGRASS.

*Darluca filum* (Biv.) Cast., Parasitic on *Uromyces graminicola* Burr. on living leaves; Payne.  
*Phyllachora graminis* (Pers. ex Fr.) Fckl., Black spot; Craig.  
*Puccinia panici* Diet., Rust; Craig.  
*Septoria* sp., Leaf spot.  
*Tilletia pulcherrima* Ell. & Gall., Kernel smut; Payne.  
*Uromyces graminicola* Burr., Rust; Okfuskee, Osage, Payne.

PARTHENOCISSUS

P. QUINQUEFOLIA (L.) Planch., VIRGINIA CREEPER.

*Phyllosticta viticola* (Berk. & Curt.) Thum., Leaf spot; Adair.

P. TRICUSPIDATA (Sieb. & Zucc.) Planch., JAPANESE CREEPER: BOSTON IVY.

*Guignardia bidwellii* (Ell.) Viala & Ravaz, Black rot; Grady.

PASPALUM

P. STRAMINEUM Nash, SAND PASPALUM.

*Cercospora paspali* Ray, Leaf spot; Payne.  
*Phyllachora wilsoni* Orton, Black spot.  
*Puccinia emaculata* Schw., Rust; Payne.  
*Puccinia substriata* Ell. & Barth., Rust.

P. SP., PASPALUM.

*Phaeosphaerella paspali* Tehon, Leaf spot; Payne.

PASSIFLORA

P. INCARNATA L., MAYPOP PASSIONFLOWER.

*Cercospora biformis* Peck, Leaf spot; Payne, Pittsburg.

PASTINACA

P. SATIVA L., GARDEN PARSNIP.

*Heterodera marioni* (Cornu) Goodey, Root knot;  
 Comanche, Tulsa.

PENSTEMON

P. COBAEA Nutt., COBAEA PENSTEMON.

*Cercospora pentstemonis* Ell. & Kell., Leaf spot;  
 Pawnee.

P. JAMESII Benth., JAMES PENSTEMON.

*Puccinia andropogonis pentstemonis* (Schw.) Arth.,  
 Rust.

## PENSTEMON—Continued.

- P. PALLIDUS Small, PALE PENSTEMON.  
*Cercospora pentstemonis* Ell. & Kell., Leaf spot; Payne.
- P. TENUIFLORUS Pennell.  
*Puccinia andropogonis pentstemonis* (Schw.) Arth.,  
Rust.

## PEROVSKIA

- P. ATRIPLICIFOLIA Benth., RUSSIANSAGE PEROVSKA.  
*Cylindrosporium* sp., Leaf spot; Payne.  
*Phoma* sp., Stem canker; Payne.

## PETALOSTEMUM

- P. OLIGOPHYLLUM (Torr.) Rydb., SLENDER WHITE  
PRAIRIECLOVER.  
*Pyrenophora comata* (Awd. & Niessl) Sacc.; Murray.
- P. PURPUREUM (Vent.) Rydb., PURPLE PRAIRIE-  
CLOVER.  
*Pyrenophora comata* (Awd. & Niessl) Sacc.; Murray.

## PETROSELINUM

- P. CRISPUM (Mill.) Nym., COMMON GARDEN  
PARSLEY.  
*Septoria petroselini* Desm., Leaf spot; Oklahoma,  
Payne.

## PETUNIA

- XP. HYBRIDA Vilm., COMMON PETUNIA.  
*Cercospora petuniae* Mull. & Chupp, Leaf blotch;  
Payne.  
*Cuscuta* sp., Dodder; Harper, Pittsburg.  
*Virus*, Cucumber mosaic; Carter, Payne.

## PHALARIS

- P. ANGUSTA Nees, TIMOTHY CANARYGRASS.  
*Puccinia graminis* Pers., Stem rust.  
*Puccinia sessilis* Schneid., Leaf rust.
- P. CAROLINIANA Walt., CAROLINA CANARYGRASS.  
*Puccinia coronata* Cda., Crown rust; general.
- P. TUBEROSA var. STENOPTERA (Hack.) Hitchc.,  
HARDINGGRASS.  
*Cercospora* sp., Leaf spot; Payne.  
*Colletotrichum graminicolum* (Ces.) G.W. Wils.,  
Anthracnose; Payne.

## PHASEOLUS

## P. AUREUS Roxb., MUNG BEAN.

*Heterodera marioni* (Cornu) Goodey, Root knot; Oklahoma.

*Nematospora coryli* Peglion, Yeast spot; Payne.

*Sclerotium bataticola* Taub., Charcoal rot; Garfield.

*Xanthomonas phaseoli* (E.F.Sm.) Dowson, Leaf & pod blight; Garfield.

## P. LUNATUS L., LIMA BEAN.

*Cercospora cruenta* Sacc., Leaf spot; Cleveland.

*Colletotrichum truncatum* (Schw.) Andrus & Moore, Anthracnose; Payne.

*Pseudomonas syringae* Van Hall, Bacterial spot; Payne.

## P. VULGARIS L., BEAN.

*Alternaria fasciculata* (Cke. & Ell.) Jones & Grout, Leaf spot; general with collection from Seminole.

*Bacterium solanacearum* E.F.Sm., Bacterial wilt; Okmulgee.

*Colletotrichum lindemuthianum* (Sacc. & Magn.)

Briosi & Cav., Anthracnose; general with collections from Le Flore, Payne, Seminole.

*Fusarium martii* var. *phaseoli* Burk., Dry root rot; Cleveland, Seminole.

*Fusarium* spp., Root rot; Carter, Hughes, Nowata.

*Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Beckham, Carter, Grady, Payne, Seminole, Tulsa.

*Pellicularia filamentosa* (Pat.) Rogers, Stem rot; Adair, Hughes, Le Flore, Payne.

*Phyllosticta phaseolina* Sacc., Leaf spot; Payne.

*Pseudomonas medicaginis* var. *phaseolicola* (Burkh.) Stapp & Kotte, Halo blight; Payne.

*Pythium aphanidermatum* (Edson) Fitz., Cotton leak; Payne.

*Rhizoctonia solani* Kuhn, Stem canker; general.

*Uromyces phaseoli typica* Arth., Rust; Pittsburg, Wagoner.

*Xanthomonas phaseoli* (E.F.Sm.) Dowson, Bacterial blight; general with collections from Adair, Canadian, Cleveland, Grady, Kingfisher, Le Flore, Logan, Oklahoma, Okmulgee, Payne, Pittsburg, Seminole, Sequoyah, Tulsa.

*Virus*, Common bean mosaic no. 1; general with collections from Payne, Seminole.

## PHELLODENDRON

- P. AMURENSE Rupr., AMUR CORKTREE.  
*Cercospora* sp., Leaf spot; Payne.

## PHILADELPHUS

- P. CORONARIUS L., SWEET MOCKORANGE.  
*Cercospora angulata* Wint., Leaf spot; Comanche.
- P. GRANDIFLORUS Willd., BIG SCENTLESS  
MOCKORANGE.  
*Cercospora angulata* Wint., Leaf spot; Payne.
- P. LEMOINEI Lem., LEMOINE MOCKORANGE.  
*Cercospora angulata* Wint., Leaf spot; Payne.

## PHILIBERTIA

- P. CYNANCHOIDES (Decne.) A Gray.  
*Puccinia obliqua* Berk.& Curt., Rust; Payne.

## PHLEUM

- P. PRATENSE L., TIMOTHY.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Payne.  
*Puccinia graminis phlei-pratensis* (Erikss.& Henn.)  
Stak.& Piem., Rust.

## PHLOX

- P. PILOSA subsp. TYPICA Wherry, DOWNY PHLOX.  
*Cercospora omphakodes* Ell.& Holw., Leaf spot; Murray.
- P. SP., PHLOX.  
*Septoria divaricata* Ell.& Ev., Leaf spot; Payne.

## PHOTINIA

- P. SP., PHOTINIA.  
*Cercospora heteromeles* Hark., Leaf spot; Oklahoma.

## PHRAGMITES

- P. COMMUNIS Trin., COMMON REED.  
*Scolecotrichum maculicola* Ell.& Kell., Leaf spot;  
Payne.

## PHRYMA

- P. LEPTOSTACHYA L., AMERICAN LOPSEED.  
*Septoria leptostachya* Ell.& Kell., Leaf spot;  
Pushmataha.

## PHYSALIS

- P. ANGULATA L., CUTLEAF GROUNDCHERRY.  
*Entyloma australe* Speg., Leaf smut; Payne.
- P. MOLLIS Nutt., VELVETY GROUNDCHERRY.  
*Cercospora physalidis* Ell., Leaf spot; Payne.  
*Entyloma australe* Speg., Smut; Payne.
- P. PUMILA Nutt., PRAIRIE GROUNDCHERRY.  
*Aecidium physalidis* Burr., Rust; Osage, Payne.
- P. VIRGINIANA Mill., VIRGINIA GROUNDCHERRY.  
*Aecidium physalidis* Burr., Rust.
- P. SP., GROUNDCHERRY.  
*Entyloma australe* Speg., Leaf smut; Payne.

## PHYSOCARPUS

- P. BRACTEATUS (Rydb.) Rehd., TWINPOD NINEBARK.  
*Cercospora physocarp* Ray, Leaf spot; Payne.
- P. OPULIFOLIUS (L.) Maxim., COMMON NINEBARK.  
*Cercospora physocarp* Ray, Leaf spot; Payne.

## PHYSOSTEGIA

- P. VIRGINIANA (L.) Benth., VIRGINIA LIONSHEART.  
*Sclerotium rolfsii* Sacc., Southern blight; Tulsa.

## PHYTOLACCA

- P. AMERICANA L., COMMON POKEBERRY.  
*Cercospora flagellaris* Ell. & Mart., Leaf spot; Osage, Payne.  
*Colletotrichum* sp., Anthracnose; Payne.  
*Virus*, Phytolacca mosaic, general with collections from McCurtain, Payne.

## PICEA

- P. SP., SPRUCE.  
*Melampsorella cerastii* (Pers.) Schroet., Rust witches' broom; Ottawa.

## PINUS

- P. ECHINATA Mill., SHORTLEAF PINE.  
*Coleosporium ipomoeae* (Schw.) Burr., Needle rust; Atoka, McCurtain.  
*Dothistroma pini* Hulbary, Needle blight; Payne.
- P. NIGRA var. AUSTRIACA (Hoess) Aschers. & Graebn., AUSTRIAN PINE.  
*Dothistroma pini* Hulbary, Needle blight; Oklahoma, Ottawa, Pawnee.

## PINUS—Continued.

## P. SPP., PINE.

*Fomes* sp., Wood rot; Oklahoma.

*Lenzites saepiaria* Wulf. ex Fr., Wood rot; Payne.

Nonparasitic, Browning.

## PIQUERIA

## P. TRINERVIA Cav., FRAGRANT PIQUERIA.

*Pythium* sp., Root rot; Oklahoma.

## PISUM

## P. SATIVUM L., GARDEN PEA.

*Ascochyta pisi* Lib., Anthracnose; Payne.

*Botrytis cinerea* Pers., Gray mold; Payne.

*Erysiphe polygoni* DC., Powdery mildew; Payne, Seminole.

*Pseudomonas pisi* Sackett, Bacterial blight; Muskogee, Seminole, Tulsa.

*Rhizoctonia solani* Kuhn, Root rot; Payne, Tulsa.

*Septoria pisi* Westd., Leaf spot; Payne.

P. SATIVUM var. ARVENSE Poir., FIELD PEA:  
AUSTRIAN WINTER PEA.

*Ascochyta pisi* Lib., Canker; Payne.

*Erysiphe polygoni* DC., Powdery mildew.

*Peronospora viciae* (Berk.) DeBy., Downy mildew.

*Pseudomonas pisi* Sackett, Bacterial blight; Payne.

## PLANTAGO

## P. ARISTATA Michx., BOTTLEBRUSH INDIANWHEAT.

*Ascochyta plantaginis* Sacc. & Speg., Leaf spot; Pawnee.

*Uromyces peckianus* Farl., Rust; Payne.

## P. HETEROPHYLLA Nutt., MANYSEEDED PLANTAIN.

*Uromyces peckianus* Farl., Rust.

## P. MAJOR L., RIPPLESEED PLANTAIN.

*Ascochyta plantaginis* Sacc. & Speg., Leaf spot; Payne.

*Erysiphe cichoracearum* DC., Powdery mildew; Payne.

*Septoria* sp., Leaf spot; Murray.

## P. PURSHII R. &amp; S., WOOLY INDIANWHEAT.

*Septoria inconspicua* Berk. & Curt., Leaf spot; Kay.

*Uromyces peckianus* Farl., Rust; Payne.

## P. VIRGINICA L., PALESEED PLANTAIN.

*Uromyces peckianus* Farl., Rust; Payne.

# PLATANUS

- P. OCCIDENTALIS L., AMERICAN PLANETREE;  
 SYCAMORE.  
*Armillaria mellea* Vahl ex Fr., Mushroom root rot;  
 Custer.  
*Cytospora platani* Fckl., Canker; Oklahoma.  
*Gnomonia veneta* (Sacc. & Speg.) Kleb., Anthracnose  
 & twig blight; general with collections from Adair,  
 Comanche, Creek, Grady, Logan, Okmulgee,  
 Payne, Tulsa, Washita.  
*Hypoxylon* sp. Dieback; Hughes.  
*Microsphaera alni* DC. ex Wint., Powdery mildew;  
 Choctaw.  
*Mycosphaerella polymorpha* D.J. Smith & C.O. Smith,  
 Leaf spot.

# PLATYCODON

- P. GRANDIFLORUM (Jacq.) A. DC., BALLOONFLOWER.  
*Botrytis* sp., Blight; Kay.

# POA

- P. AMPLA Merr., BIG BLUEGRASS.  
*Colletotrichum graminicolum* (Ces.) G.W. Wils.,  
 Anthracnose; Payne.  
 P. CANBYI (Scribn.) Piper, CANBY BLUEGRASS.  
*Colletotrichum graminicolum* (Ces.) G.W. Wils.,  
 Anthracnose; Payne.  
 P. COMPRESSA L., CANADA BLUEGRASS.  
*Erysiphe graminis* DC., Powdery mildew; Payne.  
 P. PRATENSIS L., KENTUCKY BLUEGRASS.  
*Ustilago striaeformis* (Westd.) Niessl, Stripe smut;  
 Payne.

# PODOPHYLLUM

- P. PELTATUM L., COMMON MAYAPPLE.  
*Phyllosticta podophylli* (M.A. Curt.) Wint., Leaf spot;  
 Adair, Cherokee.  
*Puccinia podophylli* Schw., Rust; Adair, Atoka, Chero-  
 kee, Delaware, Mayes, McCurtain.

# POINCIANA

- P. GILLIESI Hook., PARADISE POINCIANA.  
*Cytospora* sp., Payne.  
*Cytosporina* sp., Dieback; Payne.  
*Nectria cinnabarina* Tode ex Fr., Canker; Payne.

## POLYGONUM

- P. AVICULARE L., PROSTRATE KNOTWEED.  
*Erysiphe polygoni* DC., Powdery mildew; Payne
- P. DUMETORUM L., HEDGE KNOTWEED.  
*Puccinia polygoni-amphibii convolvuli* (Alb.& Schw.) Arth., Rust; Muskogee.
- P. HARTWRIGHTII A. Gray, KNOTWEED.  
*Puccinia polygoni-amphibii persicariae* (Str.) Arth., Rust.
- P. LAPATHIFOLIUM L., CURLTOP LADYSTHUMB.  
*Melanopsichium austro-americanum* (Speg.) G.Beck, Smut; Payne.  
*Puccinia polygoni-amphibii* Pers., Rust; Payne.
- P. PENNSYLVANICUM L., PENNSYLVANIA SMARTWEED.  
*Cercospora avicularis* Wint., Leaf spot; Payne.  
*Cercospora hydropiperis* (Thum.) Speg., Leaf spot; Payne.  
*Melanopsichium austro-americanum* (Speg.) G.Beck, Smut; Payne.  
*Septoria polygonorum* Desm., Leaf spot; Payne.
- P. PUNCTATUM Ell., DOTTED SMARTWEED.  
*Puccinia polygoni-amphibii persicariae* (Str.) Arth., Rust.
- P. SCANDENS L., HEDGE CORNBIND.  
*Puccinia polygoni-amphibii convolvuli* (A.& S.) Arth., Rust; Payne.

## POLYPOGON

- P. MONSPELIENSIS (L.) Desf., RABBITFOOT POLYPOGON.  
*Erysiphe graminis* DC., Powdery mildew; Murray.  
*Puccinia coronata* Cda., Crown rust; Murray.

## POPULUS

- P. ALBA L., WHITE POPLAR.  
*Marssonina populi* (Lib.) Magn., Leaf spot; Payne.
- P. ALBA var. PYRAMIDALIS Bunge, BOLLEANA POPLAR.  
*Phyllosticta brunnea* (Dearn.& House) Dearn.& Barth., Leaf spot; Payne.
- P. ANGUSTIFOLIA James, NARROWLEAF POPLAR.  
*Melampsora albertensis* Arth., Leaf rust; Payne.  
*Phyllosticta brunnea* (Dearn.& House) Dearn.& Barth., Leaf spot; Oklahoma.

## POPULUS—Continued.

- P. DELTOIDES Marsh., EASTERN POPLAR: COTTONWOOD.  
*Cytospora chrysosperma* Pers. ex Fr., Canker; Payne.  
*Darlucal filum* (Biv.) Cast., Parasitic on *Melampsora medusae* Thum.; Payne.  
*Melampsora medusae* Thum., Rust; Payne.  
*Nectria cinnabarina* Tode ex Fr., Canker; Payne.  
*Phoradendron flavescens* (Pursh) Nutt., Mistletoe; Payne.  
*Septoria musiva* Pk., Leaf spot; Payne, Pontotoc.  
*Septoria populi* Desm., Leaf spot; Oklahoma.
- P. NIGRA var. ITALICA Muench., LOMBARDY POPLAR.  
*Dothichiza populea* Sacc. & Briard, Branch canker; Oklahoma.
- P. SARGENTII Dode, PLAINS POPLAR.  
*Melampsora abietis-canadensis* (Farl.) Ludwig, Leaf rust; Payne.
- P. SPP., POPLAR: COTTONWOOD: ASPEN.  
*Cytospora chrysosperma* Pers. ex Fr., Canker.  
*Dothichiza populea* Sacc. & Briard, Branch canker.  
*Melampsora albertensis* Arth., Leaf rust; Payne.  
*Melampsora medusae* Thum., Leaf rust; Payne.  
*Phaeotrype* sp.; Mayes.  
*Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; Johnston.  
*Valsa* sp.; Canker; Payne.

## PORTULACA

- P. OLERACEA L., COMMON PURSLANE.  
*Albugo portulacae* (DC.) O.Kuntze, White rust; Payne.

## PRUNUS

- P. AMERICANA Marsh., AMERICAN PLUM.  
*Taphrina communis* (Sadeb.) Gies., Leaf hypertrophy; Mayes.  
*Tranzschelia pruni-spinosae* (Pers.) Diet., Rust; Payne.
- P. ANGUSTIFOLIA Marsh., CHICKASAW PLUM.  
*Taphrina mirabilis* (Atk.) Gies, Leaf blister; Muskogee, Payne.  
*Tranzschelia pruni-spinosae* (Pers.) Diet., Rust; Payne.
- P. ARMENIACA L., APRICOT.  
*Cocomyces hiemalis* Higgins, Leaf spot; Osage.  
*Monilinia fructicola* (Wint.) Honey, American brown rot; general.  
*Phymatotrichum omnivorum* (Shear) Dug., Root rot.

## PRUNUS—Continued.

- Xanthomonas pruni* (E.F.Sm.) Dowson, Bacterial spot; general with collections from Bryan, Cherokee, Garfield, Osage.
- P. BESSEYI Bailey, BESSEY CHERRY: WESTERN SAND CHERRY.  
*Tranzschelia pruni-spinosae* (Pers.) Diet., Rust; Payne.
- P. CAROLINIANA Ait., CAROLINA LAURELCHERRY.  
*Cercospora* sp., Leaf spot.
- P. CERASUS L., SOUR CHERRY.  
*Coccomyces hiemalis* Higgins, Leaf spot: Shot hole; Payne.  
*Podospheera oxycanthae* (DC.) DeBy., Powdery mildew; Kay, Payne, Tulsa.
- P. MUNSONIANA Wight & Hedr., WILDGOOSE PLUM.  
*Tranzschelia pruni-spinosae* (Pers.) Diet., Rust; Payne.
- P. ORTHOSEPALA Koehne.  
*Tranzschelia pruni-spinosae* (Pers.) Diet., Rust; Payne.
- P. PERSICA (L.) Batsch., PEACH.  
*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; Bryan, Ellis, Garfield, Grady, McCurtain, Woodward.  
*Armillaria mellea* Vahl ex Fr., Mushroom root rot; Beckham, Cherokee.  
*Cephalothecium roseum* Cda., Pink mold; Payne.  
*Cercospora persicae* Sacc., Frosty mildew.  
*Cladosporium carpophilum* Thum., Scab; Adair, Bryan, Cherokee, Delaware, Garvin, Le Flore, Logan, McCurtain, Okmulgee, Payne, Tulsa, Woods.  
*Clitocybe monadelphae* (Morgan) Sacc., Root rot.  
*Coryneum beijerinckii* Oud., Blight; general.  
*Cytospora leucostoma* Sacc., Dieback: Canker; Cotton, Lincoln, Payne.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Carter, McCurtain, Oklahoma, Payne.  
*Monilinia fructicola* (Wint.) Honey, Brown rot; Bryan, Choctaw, Cleveland, Garvin, Haskell, Le Flore, Logan, McCurtain, Muskogee, Payne, Tulsa.  
*Pseudomonas syringae* van Hall, Bud blight: Canker: Gummosis; Grant.  
*Rhizopus nigricans* Ehrenb. ex Fr., Fruit rot.  
*Stereum purpureum* Pers. ex Fr., Silver leaf; Oklahoma.  
*Taphrina deformans* (Berk.) Tul., Leaf curl; Bryan,

## PRUNUS—Continued.

- Carter, Choctaw, Creek, Garfield, Garvin, Grant, Hughes, Jefferson, Marshall, Mayes, Okmulgee, Osage, Payne, Sequoyah, Tulsa.
- Valsa leucostoma* Pers. ex Fr., Dieback; Delaware, Johnston, Lincoln, Payne.
- Xanthomonas pruni* (E.F.Sm.) Dowson, Bacterial blight; Adair, Bryan, Carter, Choctaw, Cleveland, Craig, Dewey, Garvin, Grady, Grant, Haskell, Lincoln, Love, Marshall, McCurtain, Muskogee, Payne, Roger Mills, Tulsa, Wagoner, Woodward.
- Prunus virus 1* (Kunkel) Smith, Yellows.
- Prunus virus 2* (McClint.) Smith, Rosette; Oklahoma, Payne.
- Prunus virus 3* (Hutch.) Smith, Phony disease.
- Prunus virus 5* (Hutch.) Smith, Mosaic; Bryan, Woods.
- Nonparasitic*, Hail injury; general.
- Nonparasitic*, Late frost injury; general.
- Undetermined*, Angular yellow spot; McCurtain.
- Undetermined*, Stipple spot; Bryan.
- P. PERSICA var. NECTARINA (Ait.) Maxim., NECTARINE.
- Heterodera marioni* (Cornu) Goodey, Root knot; Payne.
- Xanthomonas pruni* (E.F.Sm.) Dowson, Bacterial leaf spot; Cleveland, Payne.
- P. SEROTINA Ehrh., BLACK CHERRY.
- Poria* sp., Wood rot; Payne.
- P. SPP., CHERRY.
- Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; Caddo.
- Armillaria mellea* Vahl ex Fr., Mushroom root rot; Oklahoma.
- Clitocybe parasitica* E.M.Wilcox, Root rot; Oklahoma.
- Coccomyces hiemalis* Higgins, Leaf spot: shot hole; general with collections from Cleveland, Garvin, Grady, Haskell, Okfuskee, Oklahoma, Payne, Tulsa.
- Dibotryon morbosum* (Schw.) Theiss. & Syd., Black knot.
- Monilinia fructicola* (Wint.) Honey, American brown rot; general with collections from Cleveland, Garvin.
- Podosphaera oxycanthae* (DC.) DeBy., Powdery mildew; general with collections from Okmulgee, Pottawatomie, Washington.
- Pseudomonas syringae* van Hall, Gummosis.
- Schizophyllum commune* Fr., Sap rot; Pontotoc.
- Taphrina communis* (Sadeb.) Gies., Pockets; Muskogee.
- Tranzschelia pruni-spinosae* (Pers.) Diet., Rust.

## PRUNUS—Continued.

*Valsa leucostoma* Pers. ex Fr., Dieback; Canadian.  
*Xanthomonas pruni* (E.F.Sm.) Dowson, Bacterial spot; general with collections from Creek, Nowata, Oklahoma, Osage, Pontotoc, Seminole, Tulsa.  
*Xylaria* sp., Black root rot; Oklahoma.  
 Nonparasitic, Late frost injury; general.

## P. SPP., PLUM.

*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; Caddo, Seminole.  
*Armillaria mellea* Vahl ex Fr., Mushroom rot; Custer.  
*Cladosporium carpophilum* Thum., Scab; Comanche.  
*Clitocybe* sp., Root rot; Lincoln, Oklahoma.  
*Coccomyces hiemalis* Higgins, Leaf spot: shot hole; Caddo, Okfuskee, Payne.  
*Coccomyces prunophorae* Higgins, Leaf spot: shot hole; Payne.  
*Dibotryon morbosum* (Schw.) Theiss. & Syd., Black knot; general with collections from Blaine, Delaware, McCurtain, Noble, Oklahoma, Payne, Roger Mills, Woodward.  
*Erwinia amylovora* (Burr.) Winslow et al., Fire blight; McClain, Okmulgee.  
*Monilinia fructicola* (Wint.) Honey, American brown rot; general with collections from Adair, Bryan, Cherokee, Logan, McCurtain, Muskogee, Payne, Seminole, Tulsa.  
*Rhizoctonia solani* Kuhn, Root rot; Cotton.  
*Sphaeropsis* sp., Canker; Payne.  
*Taphrina communis* (Sad.) Gies., Pockets; general with collections from Bryan, Carter, Custer, Garfield, Garfield, McCurtain, McIntosh, Muskogee, Ottawa, Payne, Rogers.  
*Tranzschelia pruni-spinosae* (Pers.) Diet., Rust; general with collections from Carter, Creek, Ellis, Grady, Haskell, Okmulgee, Pawnee, Payne, Pittsburg, Pontotoc, Roger Mills.  
*Xanthomonas pruni* (E.F.Sm.) Dowson, Bacterial spot; general with collections from Adair, Canadian, Cleveland, Creek, Grady, Haskell, Logan, Oklahoma, Ottawa, Payne, Roger Mills, Seminole.  
 Nonparasitic, Kelsey spot: Sunscald; general with collection from Payne.  
 Nonparasitic, Late frost injury; general.

## P. SP.

*Taphrina mirabilis* (Atk.) Gies.; McIntosh.

## PSORALEA

- P. CUSPIDATA Pursh, TALLBREAD SCURFPEA.  
*Parodiella perisporioides* (B.& C.) Speg., Black spot; Murray.
- P. DIGITATA Nutt., DIGITATE SCURFPEA.  
*Cercospora psoraleae* Ray, Leaf spot; Payne.  
*Cuscuta arvensis* Beyrich, Dodder; Cleveland, Payne.
- P. TENUIFLORA Pursh, SLIMFLOWER SCURFPEA.  
*Parodiella griffithsii* Theiss.& Syd., Black spot; Payne.  
*Uromyces psoraleae argophyllae* (Seym.) Arth., Rust; Payne.
- P. TENUIFLORA var. FLORIBUNDA (Nutt.) Rydb.  
*Parodiella perisporioides* (Berk.& Curt.) Speg., Black spot; Payne, Pottawatomie.  
*Uromyces psoraleae argophyllae* (Seym.) Arth., Rust; Payne.

## PTELEA

- P. TRIFOLIATA L., COMMON HOPTREE.  
*Alternaria tenuis* Nees ex Fr., Leaf spot; Payne.  
*Cercospora pteleae* Wint., Leaf spot; Le Flore.  
*Puccinia windsoriae* Schw., Rust; Payne.  
*Septoria pteleae* Ell.& Ev., Leaf spot; Payne.

## PUERARIA

- P. THUNBERGIANA Benth., KUDZU.  
*Pseudomonas medicaginis* var. *phaseolicola* (Burkh.) Stapp & Kotte; Payne.

## PYCNANTHEMUM

- P. PILOSUM Nutt., HAIRY MOUNTAINMINT.  
*Puccinia menthae* Pers., Rust; Le Flore.

## PYRACANTHA

- P. COCCINEA var. LALANDII Dipp., LALAND FIRE-THORN.  
*Venturia inaequalis* (Cke.) Wint., Scab; Payne.
- P. SPP., FIRETHORN: PYRACANTHA.  
*Erwinia amylovora* (Burr.) Winslow et al., Fire blight.  
*Fusicoccum* sp., Canker.

## PYRRHOPAPPUS

- P. CAROLINIANUS (Walt.) DC., LEAFYSTEM FALSEDANDELION.  
*Puccinia hieracii* (Schum.) Mart., Rust; Payne, Pushmataha.

## PYRRHOPAPPUS—Continued.

- Septoria* sp., Leaf spot; Payne.
- P. GRANDIFLORUS Nutt., ROUGH FALSEDANDELION.  
*Puccinia hieracii* (Schum.) Mart., Rust.
- P. MULTICAULIS DC.  
*Puccinia hieracii* (Schum.) Mart., Rust; Payne.  
*Septoria* sp., Leaf spot; Payne.

## PYRUS

- P. COMMUNIS L., COMMON PEAR.  
*Entomosporium maculatum* Lev., Leaf spot; Bryan, Garvin, Pawnee, Payne.  
*Erwinia amylovora* (Burr.) Winslow et al., Fire blight; general with collections from Bryan, Choctaw, Creek, Garvin, Kingfisher, Le Flore, McClain, McCurtain, McIntosh, Muskogee, Noble, Nowata, Oklahoma, Pawnee, Payne, Pittsburg, Seminole, Tulsa, Washita.  
*Fabraea maculata* (Lev.) Atk., Leaf blight; general with collections from Bryan, Garvin, Pawnee, Payne.  
*Gloeodes pomigena* (Schw.) Colby, Sooty blotch; general with collections from Le Flore, Payne.  
*Mycosphaerella sentina* (Fr.) Schroet., Ashy leaf spot; Haskell.  
*Phyllosticta solitaria* Ell. & Ev., Blotch; Bryan.  
*Phymatotrichum omnivorum* (shear) Dug., Texas root rot.  
*Physalospora obtusa* (Schw.) Cke., Black rot; Garvin, Payne.  
*Septoria pyricola* Desm., Leaf spot; Garfield, Haskell.  
*Venturia pyrina* Aderh., Scab; general with collection from Le Flore.  
Nonparasitic, Frost injury; Bryan.  
Undetermined, Brown blotch of fruit; Creek.

## QUAMOCLIT

- Q. COCCINEA (L.) Moench, SCARLET STARGLORY.  
*Albugo ipomoeae-panduranae* (Schw.) Swingle, White rust; Logan.

## QUERCUS

- Q. ALBA L., WHITE OAK.  
*Macrophoma nervicola* Ell. & Ev., Leaf spot; Le Flore.  
*Polyporus dryadeus* Pers. ex Fr., White root rot.  
*Taphrina caerulescens* (Desm. & Mont.) Tul., Leaf blister; Pushmataha.
- Q. COCCINEA Muench., SCARLET OAK.  
*Septoria dryina* Cke., Leaf spot; Payne.

## QUERCUS—Continued.

- Q. **MACROCARPA** Michx., BUR OAK.  
*Clitocybe tabescens* (Scop. ex Fr.) Bres., Root rot.  
*Lenzites* sp., Wood rot; Payne.  
*Polyporus versicolor* L. ex Fr., Wood rot; Payne.  
*Stereum* sp., Wood rot; Payne.  
*Valsa macrocarpa* Ell. & Ev., Canker; Payne.
- Q. **MARILANDICA** Muench., BLACKJACK OAK.  
*Clitocybe tabescens* (Scop. ex Fr.) Bres., Root rot.  
*Hypoxylon atropunctatum* (Schw. ex Fr.) Cke., Wood rot; Mayes, Payne.  
*Monochaetia desmazierii* Sacc., Leaf spot; Lincoln.  
*Phoradendron flavescens* (Pursh) Nutt., Mistletoe; McClain.  
*Phyllactinia corylea* Pers. ex Karst., Powdery mildew; Payne.  
*Polyporus dryadeus* Pers. ex Fr., Root & Butt rot.  
*Polyporus dryophilus* Berk., White pocket heart rot.  
*Polyporus obtusus* Berk., Rot; Payne.  
*Septoria dryina* Cke., Leaf spot; Payne.  
*Taphrina caerulescens* (Desm. & Mont.) Tul., Leaf blister; Coal, Hughes, McCurtain.
- Q. **MUHLENBERGII** Engelm., CHINKAPIN OAK.  
*Actinopelte dryina* (Sacc.) Hoehn., Leaf spot; Payne.  
*Marssonina martini* (Sacc. & Ell.) P. Magn., Leaf spot; Payne.  
*Microsphaera alni* DC. ex Wint., Powdery mildew; Washington.
- Q. **NIGRA** L., WATER OAK.  
*Gloeosporium* sp., Leaf spot; Choctaw.
- Q. **PALUSTRIS** Muench., PIN OAK.  
*Cytospora chrysosperma* Pers. ex Fr., Twig canker; Payne.  
*Septoria dryina* Cke., Leaf spot; Bryan.
- Q. **RUBRA** L. (*Q. falcata* Michx.) SOUTHERN RED OAK.  
*Microsphaera alni* DC. ex Wint., Powdery mildew; Atoka
- Q. **RUBRA** f. **TRILOBA** (Michx.) Trel., THREELOBE RED OAK.  
*Phoradendron flavescens* (Pursh) Nutt., Mistletoe; McClain.  
*Taphrina caerulescens* (Desm. & Mont.) Tul., Leaf blister; McCurtain.
- Q. **STELLATA** Wang., POST OAK.  
*Marssonina martini* (Sacc. & Ell.) P. Magn., Leaf spot; Payne.

## QUERCUS—Continued.

- Microsphaera alni* DC. ex Wint., Powdery mildew; Payne.
- Phoradendron flavescens* (Pursh) Nutt., Mistletoe; McClain.
- Phyllosticta livida* Ell. & Mart., Leaf spot; Lincoln.
- Q. SPP., OAK.
- Coryneum kunzei* Cda., Twig & branch canker: Die-back; Seminole.
- Cronartium quercuum* (Berk.) Miyabe, Rust; Payne.
- Daedalea unicolor* Bull. ex Fr., Wood rot; Payne.
- Daldinia concentrica* (Bolt. ex Fr.) Ces. & DeNot.; Payne.
- Fomes everhartii* (Ell. & Gall.) Schrenk, Trunk canker; Tulsa.
- Fomes ignarius* (L. ex Fr.) Kickx, White mottled heart rot.
- Fomes ohiensis* (Berk.) Murr., Heart rot; Payne.
- Fumago vagans* Pers., Sooty mold; McCurtain.
- Gnomonia veneta* (Sacc. & Speg.) Kleb., Anthracnose; Oklahoma.
- Morenoella quercina* (Ell. & Mart.) Thiess., Black Leaf spot; Delaware, McCurtain.
- Mycosphaerella* sp., Leaf spot; Payne.
- Peniophora* sp., Wood rot; Payne.
- Polyporus arcularius* Batsch ex Fr.; Payne.
- Polyporus dichrous* Fr.; Payne.
- Polyporus dryadeus* Pers. ex Fr., White pocket butt rot.
- Polyporus gilvus* (Schw.) Fr., Wood rot; Mayes, Payne.
- Polyporus hirsutus* Wulf. ex Fr.; Mayes, Payne.
- Polyporus versicolor* L. ex Fr.; Mayes.
- Stereum fasciatum* Schw.; Mayes.
- Stereum frustulosum* Pers. ex Fr., Sprout butt rot & White pocket heart rot; Payne.
- Stereum lobatum* (Ktze.) Fr., Wood rot.
- Stereum rameale* Schw.; Delaware.
- Taphrina caerulescens* (Des. & Mont.) Tul., Leaf blister; Hughes, Pushmataha.
- Trametes sepium* Berk., Wood rot; Payne.

## RAPHANUS

- R. SATIVUS L., GARDEN RADISH.
- Albugo candida* (Pers. ex Lev.) Kuntze, White rust.
- Aphanomyces raphani* Kendrick, Black root rot; Payne.

## RAPHANUS—Continued.

*Pythium aphanidermatum* (Edson) Fitz., Root rot; Payne.

*Rhizoctonia solani* Kuhn, Root rot; Tulsa.

## R. SATIVUS L., WHITE ICICLE RADISH.

*Aphanomyces raphani* Kendrick, Black root rot; Payne.

## RHAMNUS

## R. CATHARTICA L., COMMON BUCKTHORN.

*Sphaeropsis rhamni* Cke., Leaf spot; Payne.

## RHEUM

## R. RHAPONTICUM L., GARDEN RHUBARB.

*Alternaria* sp., Storage rot; Payne.

*Erwinia carotovora* (Jones) Winslow et al, Soft rot; Grady.

*Fusarium* sp., Root rot; Beckham, Lincoln.

*Heterodera marioni* (Cornu) Goodey, Root knot; Kay.

*Pellicularia filamentosa* (Pat.) Rogers; Stem rot; Beckham.

*Phytophthora rhapontica* (Millard) S.A.B., Crown rot; Beckham, Kingfisher, McCurtain, Payne.

*Phytophthora cactorum* (L.& C.) Schroet., Crown rot; Oklahoma.

## RHODODENDRON

## R. NUDIFLORUM (L.) Torr., PINXTERBLOOM AZALEA.

*Exobasidium vaccinii* (Fckl.) Wor., Leaf gall; McCurtain.

## R. SPP., RHODODENDRON.

*Cercospora* sp., Leaf spot; Tulsa.

*Pestalotia rhododendri* (Sacc.) Guba, Leaf spot; Tulsa.

*Phyllosticta maxima* Ell.& Ev., Leaf spot; Payne.

## RHUS

## R. AROMATICA Ait., FRAGRANT SUMAC.

*Cercospora rhoina* Cke.& Ell., Leaf spot; Payne.

## R. GLABRA L., SMOOTH SUMAC.

*Cercospora rhoina* Cke.& Ell., Leaf spot; Payne.

## R. RHOMBOIDEA Small, POISON OAK.

*Pileolaria effusa* Peck, Rust.

## R. TOXICODENDRON L., POISON IVY.

*Pileolaria toxicodendri* (Berk.& Rav.) Arth., Rust; general with collection from Payne.

*Septoria irregularis* Pk., Leaf spot; Payne.

## R. TRILOBATA Nutt., SKUNKBRUSH SUMAC.

*Cercospora rhoina* Cke.& Ell., Leaf spot; Payne.

*Pileolaria patzcuarensis* (Holw.) Arth., Rust.

## RIBES

- R. AUREUM Pursh, GOLDEN CURRANT.  
*Phyllosticta grossulariae* Sacc., Leaf spot; Murray.
- R. ODORATUM Wendl., CLOVE CURRANT.  
*Puccinia caricis grossulariata* Arth., Rust.  
*Septoria ribis* Desm., Leaf spot; Payne.
- R. SPP., GOOSEBERRY.  
*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn,  
Crown gall; general with collection from Oklahoma.  
*Septoria ribis* Desm., Leaf spot; Payne.

## ROBINIA

- R. HISPIDA L., ROSEACACIA LOCUST.  
*Alternaria fasciculata* (Cke. & Ell.) Jones & Grout,  
Leaf spot; Payne.
- R. PSEUDOACACIA L., BLACK LOCUST.  
*Clitocybe illudens* Schw., Heart rot; Payne.  
*Fomes rimosus* (Berk.) Cke., Yellow spongy heart rot.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
Haskell.  
*Phymatotrichum omnivorum* (Shear) Dug., Root rot.  
*Valsa* sp.; Payne.

## RORIPPA

- R. NASTURTIUM-AQUATICUM (L.) Schinz & Thell.,  
WATERCRESS.  
*Cercospora nasturti* Pass., Leaf spot; Murray.

## ROSA

- R. SPP., ROSE.  
*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn,  
Crown gall; general with collections from Logan, Oklahoma, Ottawa.
- Armillaria mellea* Vahl ex Fr., Mushroom root rot.
- Botryosphaeria ribis* (Tode ex Fr.) Gross. & Dug., Cane blight; Osage.
- Botrytis cinerea* Pers., Bud blight; Grady, Kingfisher, Logan, Oklahoma, Seminole.
- Cercospora hyalina* Mull. & Chupp, Leaf spot; Payne.
- Coniothyrium fuckelii* Sacc., Stem canker: Graft canker; general with collections from Le Flore, Oklahoma, Ottawa, Payne, Seminole, Tulsa, Washington.
- Coryneum microstictum* Berk. & Br., Canker; Delaware, Payne.

## ROSA—Continued.

*Cryptosporella umbrina* (Jenkins) Jenkins & Wehm., Brown canker; Rogers.

*Diplocarpon rosae* Wolf, Black spot; general with collections from Blaine, Caddo, Choctaw, Comanche, Creek, Grady, Haskell, Lincoln, Logan, Oklahoma, Ottawa, Pawnee, Payne, Rogers; Tulsa.

*Fusarium* sp., Stem rot; Caddo, Payne.

*Gloeosporium rosae* Halst., Anthracnose: Twig blight; Oklahoma, Payne.

*Heterodera marioni* (Cornu) Goodey, Root knot; Muskogee.

*Phragmidium* sp., Rust; Atoka, Creek.

*Sphaerotheca pannosa* (Wallr.) Lev., Powdery mildew; general with collections from Alfalfa, Caddo, Choctaw, Creek, Custer, Garfield, Grady, Jackson, Kay, Kiowa, Lincoln, Marshall, Noble, Nowata, Oklahoma, Okmulgee, Osage, Pawnee, Payne, Pontotoc, Pottawatomie, Seminole.

*Sphaerotheca* sp., Powdery mildew; Custer.

## RUBUS

- R. HISPIDUS L., SWAMP BLACKBERRY.

*Kunkelia nitens* (Schw.) Arth., Orange rust.

- R. IDAEUS L., RED RASPBERRY.

*Leptosphaeria coniothyrium* (Fckl.) Sacc., Cane blight; Pottawatomie.

*Leptothyrium pomi* (Mont. & Fr.) Sacc., Fly speck, Oklahoma.

*Phoma rubicola* Brun., Spur blight; Oklahoma.

- R. OCCIDENTALIS L., BLACK RASPBERRY.

*Cylindrosporium rubi* Ell. & Morg., Leaf spot; Pawnee.

- R. SPP., BLACKBERRY.

*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; Adair, Cherokee, Choctaw, Okmulgee, Pottawatomie.

*Armillaria mellea* Vahl ex Fr., Mushroom root rot; Payne.

*Elsinoe veneta* (Speg.) Jenkins, Anthracnose; Bryan, Cleveland, Creek, Nowata, Okmulgee, Payne, Seminole.

*Gymnoconia peckiana* (Howe) Trott., Orange rust; Adair, Bryan, Caddo, Le Flore, Logan, McIntosh, Okmulgee, Pawnee, Payne, Pittsburg, Pottawatomie.

*Kuehneola uredinis* (Lk.) Arth., Yellow rust; Oklahoma.

*Kunkelia nitens* (Schw.) Arth., Orange rust; Adair, Delaware, McCurtain, Payne, Tulsa.

## RUBUS—Continued.

*Leptosphaeria coniothyrium* (Fckl.) Sacc., Cane blight; Oklahoma, Payne, Tulsa.

*Mycosphaerella rubi* Roark, Leaf spot; general with collections from Nowata, Oklahoma, Payne, Seminole, Washita.

*Septoria rubi* Westd., Leaf spot; general with collections from Adair, Bryan, Canadian, Cleveland, Nowata, Oklahoma, Payne, Seminole, Washita.

*Nonparasitic*, Frost injury.

## R. SP., BOYSENBERRY.

*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; Adair.

*Coniothyrium* sp., Cane canker; Adair.

*Elsinoe veneta* (Speg.) Jenkins, Anthracnose; Adair, Bryan, Choctaw, Haskell.

*Gloeosporium* sp., Anthracnose; Adair.

*Kunkelia nitens* (Schw.) Arth., Orange rust; Tulsa.

*Mycosphaerella* sp., Leaf spot; Adair.

## R. SP. DEWBERRY.

*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; Lincoln.

*Elsinoe veneta* (Speg.) Jenkins, Anthracnose; general with collections from Adair, Beckham, Bryan, Choctaw, Garvin, Haskell, Payne, Pittsburg, Seminole.

*Mycosphaerella rubi* Roark, Leaf spot; Major, Seminole.

*Septoria rubi* Westd., Leaf spot; Grady, Major, Seminole.

## R. SP., LOGANBERRY.

*Mycosphaerella rubi* Roark, Leaf spot; Payne.

## R. SP., RASPBERRY.

*Agrobacterium tumefaciens* (E.F.Sm. & Town.) Conn, Crown gall; general.

*Coniothyrium fuckelii* Sacc., Cane blight: Graft canker; Carter.

*Cylindrosporium rubi* Ell. & Morgan, Leaf spot; Grady, Tulsa.

*Elsinoe veneta* (Speg.) Jenkins, Anthracnose; Muskogee, Okmulgee, Pottawatomie.

*Gymnoconia peckiana* (Howe) Trott., Orange rust; general with collection from Okmulgee.

*Mycosphaerella rubi* Roark, Leaf spot; Oklahoma, Payne, Pittsburg.

*Virus*, Mosaic & Leaf curl; general.

*Nonparasitic*, Frost injury; general.

RUBUS—Continued.

R. SP., YOUNGBERRY.

*Coniothyrium* sp., Cane canker; Creek.

*Gloeosporium* sp., Anthracnose; Oklahoma.

*Mycosphaerella rubi* Roark, Leaf spot; Creek, Seminole.

RUDBECKIA

R. AMPLEXICAULIS Vahl, CLASPING CONEFLOWER.

*Cuscuta arvensis* Beyrich, Dodder; Pottawatomie.

*Erysiphe cichoracearum* DC., Powdery mildew;

Payne.

R. HIRTA L., BLACKEYED SUSAN.

*Plasmopara halstedii* (Farl.) Berl. & DeToni, Downy mildew; Murray.

*Septoria rudbeckiae* Ell. & Halst., Leaf spot; Murray.

RUELLIA

R. STREPENS L., LIMESTONE RUELLIA.

*Cercospora consociata* Wint., Leaf spot; Payne.

RUMEX

R. ALTISSIMUS Wood, PALE DOCK.

*Phyllosticta circuligerens* Tehon & Daniels, Leaf spot; Payne.

*Septoria rumicis* Ell., Leaf spot; Payne.

R. CRISPUS L., CURLY DOCK.

*Colletotrichum erumpens* Sacc., Anthracnose; Seminole.

*Ramularia obovata* Fckl., Leaf spot; Payne.

R. HASTATULUS Baldw., HEARTWING SORREL.

*Ramularia obovata* Fckl., Leaf spot; Payne.

R. VENOSUS Pursh, VEINY DOCK.

*Puccinia phragmitis* (Schum.) Korn., Rust.

*Ramularia obovata* Fckl., Leaf spot; Payne.

SABATIA

S. CAMPESTRIS Nutt., PRAIRIE ROSEGENTIAN.

*Cercospora sabbatae* Ell. & Ev., Leaf spot; Cleveland, Pawnee, Payne.

*Gloeosporium* sp., Anthracnose; Payne.

SALIX

S. DISCOLOR Muhl., PUSSYWILLOW.

*Dothiorella ribis* (Fckl.) Sacc., Branch canker; Oklahoma.

*Macrophoma* sp., Branch canker; Payne.

## SALIX—Continued.

- S. INTERIOR Rowlee, SANDBAR WILLOW.  
*Melampsora abieti-capraearum* Tub., Leaf rust; Payne.
- S. LONGIPES Shuttlew., COASTALPLAIN WILLOW.  
*Melampsora abieti-capraearum* Tub., Leaf rust.
- S. NIGRA Marsh., BLACK WILLOW.  
*Melampsora abieti-capraearum* Tub., Leaf rust.
- S. SPP., WILLOW.  
*Coryneum* sp., Leaf spot; Oklahoma.  
*Cylindrosporium salicinum* (Pk.) Dearn., Leaf spot; Oklahoma, Payne, Tulsa.  
*Cytospora chrysosperma* Pers. ex Fr., Canker; Nowata, Payne, Wagoner.  
*Marssonina populi* (Lib.) Magn., Leaf spot; Muskogee, Payne.  
*Melampsora bigelowii* Thum., Rust; Harper, Muskogee, Ottawa, Payne.

## SALVIA

- S. AZUREA Lam., AZURE SAGE.  
*Cercospora salviicola* Tharp, Leaf spot; Payne.
- S. LANCEOLATA Willd., LANCELEAF SAGE.  
*Puccinia caulicola* T. & G., Rust.
- S. PITCHERI Torr., PITCHERS SAGE.  
*Puccinia farinacea* Long, Rust.

## SAMBUCUS

- S. CANADENSIS L., AMERICAN ELDER.  
*Heterosporium sambuci* Earle; Payne.  
*Septoria sambucina* Pk., Leaf spot; Payne.
- S. SP., ELDER.  
*Alternaria* sp., Leaf spot.  
*Cercospora catenospora* Atk., Leaf spot.

## SAPINDUS

- S. DRUMMONDII Hook. & Arn., WESTERN SOAPBERRY.  
*Cylindrosporium griseum* Heald & Wolf., Leaf blight; Payne.  
*Phymatotrichum omnivorum* (Shear) Dug., Root rot.

## SASSAFRAS

- S. ALBIDUM (Nutt.) Nees, COMMON SASSAFRAS.  
*Phyllosticta sassafras* Cke., Leaf spot; Delaware.

## SCIRPUS

- S. AMERICANUS Pers., AMERICAN BULRUSH.  
*Puccinia obtecta* Peck, Rust.

## SCROPHULARIA

- S. MARILANDICA L., MARYLAND FIGWORT.  
*Cylindrosporium scrophulariae* Sacc. & Ell., Leaf spot;  
Cherokee.

## SCUTELLARIA

- S. INTEGRIFOLIA L., HYSSOP SKULLCAP.  
*Septoria scutellariae* Thum., Leaf spot; Pushmataha.  
S. PARVULA Michx., SMALL SKULLCAP.  
*Septoria scutellariae* Thum., Leaf spot; Payne.

## SECALE

- S. CEREALE L., RYE.  
*Claviceps purpurea* (Fr.) Tul., Ergot; general.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; general with collection from Payne.  
*Darluca filum* (Biv.) Cast., Parasitic on *Puccinia*  
*rubigo-vera secalis* (Erikss.) Carl. on living leaves;  
Payne.  
*Erysiphe graminis* DC., Powdery mildew; general.  
*Gibberella zeae* (Schw.) Petch, Scab.  
*Ophiobolus graminis* Sacc., Take all; Ottawa.  
*Puccinia graminis* Pers., Stem rust; general.  
*Puccinia rubigo-vera secalis* (Erikss.) Carl., Leaf rust;  
general with collections from Bryan, Payne.  
*Urocystis occulta* (Wallr.) Rabh., Flag smut; general  
with collection from Oklahoma.  
*Ustilago tritici* (Pers.) Rostr., Loose smut.

## SETARIA

- S. ITALICA (L.) Beauv., FOXTAIL MILLET.  
*Helminthosporium turcicum* Pass., Leaf stripe;  
Virus, Mosaic; Payne.  
S. LUTESCENS (Weigel) Hubb., YELLOW BRISTLE-  
GRASS.  
*Bacterium* sp., Bacterial leaf spot; Payne.  
*Cercospora setariicola* Tehon & Daniels, Leaf spot;  
Cleveland.  
*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.  
*Piricularia grisea* (Cke.) Sacc., Gray leaf spot; Murray.

## SILENE

- S. ANTIRRHINA L., SLEEPY SILENE.  
*Ascochyta silenes* Ell. & Ev., Leaf spot; Delaware.  
*Septoria* sp., Leaf spot; Payne.

## SISYMBRIUM

- S. ALTISSIMUM L., TUMBLE MUSTARD.  
*Albugo candida* (Pers. ex Lev.) Kuntze, White rust;  
Payne.

## SISYRINCHIUM

- S. GRAMINEUM Curtis, BLUE-EYEDGRASS.  
*Accidium residuum* Arth., Rust; Garfield.

## SMILACINA

- S. RACEMOSA (L.) Desf., FEATHER SOLOMONPLUME;  
FALSE SPIKENARD.  
*Puccinia sessilis* Schneid., Rust; McCurtain.

## SMILAX

- S. BONA-NOX L., SAW GREENBRIER.  
*Cercospora smilacina* Sacc., Leaf spot; Payne.  
*Dothiorella smilacina* (Pk.) Petr. & Syd., Leaf spot;  
Payne.  
*Puccinia amphigena* Diet., Rust; Payne.  
*Puccinia smilacis* Schw., Rust; Payne.
- S. GLAUCA Walt., CAT GREENBRIER.  
*Dothiorella smilacina* (Pk.) Petr. & Syd., Leaf spot;  
Payne.  
*Phyllosticta smilacis* Ell. & Mart., Leaf spot; Payne.  
*Puccinia smilacis* Schw., Rust; Payne.
- S. HERBACEA L., CARRIONFLOWER GREENBRIER.  
*Puccinia amphigena* Diet., Rust; McCurtain.
- S. HISPIDA Muhl., BRISTLY GREENBRIER.  
*Phyllosticta* sp., Leaf spot; Payne.
- S. LANCEOLATA L., LANCELEAF GREENBRIER.  
*Phyllosticta* sp., Leaf spot; McCurtain.
- S. PSEUDO-CHINA L., LONG-STALKED GREENBRIER.  
*Cercospora smilacina* Sacc., Leaf spot; Payne.
- S. ROTUNDIFOLIA L., COMMON GREENBRIER.  
*Dothiorella smilacina* (Pk.) Petr. & Syd., Leaf spot;  
Payne.  
*Puccinia smilacis* Schw., Rust.
- S. SPP., GREENBRIER.  
*Colletotrichum smilacis* Tehon, Anthracnose; Murray.  
*Gloeosporium cingulatum* Atk., Leaf spot; Murray.  
*Puccinia smilacis* Schw., Rust; Creek, Delaware, Le  
Flore, Payne.

## SOJA

## S. MAX (L.) Piper, SOYBEAN.

*Cercospora sojae* Hara, Leaf spot; Delaware, Payne.

*Colletotrichum glycines* Hori, Anthracnose; Payne, Tulsa.

*Diaporthe phaseolorum* var. *sojae* (Lehm.) Wehm., Pod & stem blight; Delaware, Muskogee, Payne.

*Fusarium oxysporum* f. *tracheiphilum* (E.F.Sm.) Snyder & Hansen, Wilt; Muskogee, Payne.

*Glomerella glycines* (Hori) Lehm. & Wolf, Anthracnose; Payne.

*Macrophomina phaseoli* (Mauubl.) Ashby, Ashy stem blight; Payne.

*Nematospora coryli* Peglion, Yeast spot; Payne.

*Peronospora manshurica* (Naoum.) Syd., Downy mildew; Okmulgee.

*Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; Marshall.

*Pseudomonas glycinea* (Coerper) Stapp, Bacterial blight; Craig, Delaware, Muskogee, Okmulgee, Payne.

*Pseudomonas tabaci* (Wolf & Foster) Stapp, Wildfire; Payne.

*Sclerotium bataticola* Taub., Charcoal rot; Craig, Delaware, Muskogee, Payne, Tulsa.

*Xanthomonas phaseoli* var. *sojense* (Hed.) Starr & Burkholder, Bacterial pustule; Craig, Creek, Delaware, Muskogee, Okmulgee, Payne.

*Virus*, Mosaic; Payne.

## SOLANUM

## S. CAROLINENSE L., CAROLINA HORSENETTLE.

*Phoma terrestris* Hansen, Stem canker; Payne.

## S. MELONGENA L., GARDEN EGGPLANT.

*Bacterium solanacearum* E.F.Sm., Bacterial wilt; Payne.

*Colletotrichum atramentarium* (Berk. & Br.) Taub., Anthracnose.

*Phomopsis vexans* (Sacc. & Syd.) Harter, Fruit rot; Payne.

## S. TUBEROSUM L., POTATO.

*Actinomyces scabies* (Thax.) Guss., Scab; Haskell, Hughes, Le Flore, McIntosh, Muskogee, Okfuskee, Oklahoma, Okmulgee, Payne, Pittsburg, Seminole, Sequoyah, Wagoner.

## SOLANUM—Continued.

- Alternaria solani* (Ell. & Mart.) Jones & Grout, Early blight; general with collections from Choctaw, Haskell, Le Flore, McCurtain, McIntosh, Oklahoma, Payne, Seminole, Tulsa.
- Bacterium solanacearum* E.F.Sm., Bacterial wilt; Craig.
- Cephalobus* sp., Nematode; Okfuskee.
- Colletotrichum atramentarium* (Berk. & Br.) Taub., Anthracnose; Creek.
- Corynebacterium sepedonicum* (Speick. & Kotth.) Skapt., Bacterial ring rot.
- Erwinia carotovora* (Jones) Winslow et al., Soft rot & Blackleg; general with collections from Caddo, Craig, Hughes, Le Flore, Oklahoma, Okmulgee, Pottawatomie, Seminole, Sequoyah, Texas.
- Fusarium oxysporum* Schl., Wilt; general with collections from Bryan, Creek, Haskell, Seminole.
- Fusarium solani* f. *eumartii* (Carp.) Snyder & Hansen, Dry rot; End rot; general with collections from Caddo, Muskogee, Seminole, Sequoyah, Tulsa.
- Helicobasidium purpureum* (Tul.) Pat., Violet root rot; Oklahoma.
- Heterodera marioni* (Cornu) Goodey, Root knot; general with collections from Creek, Haskell, Johnston, Okfuskee.
- Pellicularia filamentosa* (Pat.) Rogers, Stem rot; Choctaw, Seminole.
- Phytophthora* sp., Pink rot; Muskogee.
- Rhizoctonia solani* Kuhn, Stem rot; general with collections from Bryan, Choctaw, Haskell, Okfuskee, Oklahoma, Payne, Seminole.
- Sclerotium bataticola* Taub., Charcoal rot; Payne.
- Sclerotium rolfsii* Sacc., Southern blight; Okfuskee.
- Spongospora subterranea* (Wallr.) Johnson, Powdery scab; Oklahoma, Payne.
- Virus*, Leaf roll; general with collection from Choctaw.
- Virus*, Mild mosaic; general with collections from Choctaw, McCurtain.
- Virus*, Purple top wilt; Choctaw.
- Virus*, Rugose mosaic; general with collection from Le Flore.
- Virus*, Spindle tuber; general.
- Virus*, Witches broom.
- Nonparasitic*, Enlarged lenticels.
- Nonparasitic*, Hair sprout.

SOLANUM—Continued.

*Nonparasitic*, Hollow heart; Black heart; general.  
*Nonparasitic*, Tipburn; general with collection from  
 Seminole.

SOLIDAGO

- S. GIGANTEA var. LEIOPHYLLA Fern., NOVEMBER  
 GOLDENROD.  
*Coleosporium solidaginis* (Schw.) Thum., Rust.
- S. GRAMINIFOLIA (L.) Salisb., GRASSLEAF  
 GOLDENROD.  
*Cuscuta arvensis* Beyrich., Dodder; Muskogee.
- S. SPP., GOLDENROD.  
*Coleosporium solidaginis* (Schw.) Thum., Rust;  
 Lincoln, Payne.  
*Cuscuta compacta* Juss., Dodder; Greer.  
*Cuscuta cuspidata* Engelm., Dodder; Cleveland, Greer.  
*Septoria* sp., Leaf spot; Payne.

SONCHUS

- S. ASPER (L.) Hill, PRICKLY SOWTHISTLE.  
*Alternaria sonchi* J. J. Davis, Leaf blight; Payne.  
*Erysiphe cichoracearum* DC., Powdery mildew; Payne.

SOPHORA

- S. AFFINIS Torr. & Gray, TEXAS SOPHORA.  
*Corticium* sp., Murray.  
*Macrophoma* sp.; Murray.
- S. JAPONICA L., JAPANESE PAGODATREE.  
*Nectria cinnabarina* Tode ex Fr., Twig blight; Payne.

SORBUS

- S. AMERICANA Marsh., AMERICAN MOUNTAINASH.  
*Phyllosticta sorbi* Westd., Leaf spot; Washington.

SORGHASTRUM

- S. NUTANS (L.) Nash, YELLOW INDIANGRASS.  
*Cerebella andropogonis* Ces., Blackhead: False smut;  
 Lincoln, Payne, Pittsburg.  
*Claviceps* sp., Ergot; Lincoln, Payne.  
*Ellisiella caudata* (Pk.) Sacc., Leaf spot; Payne.  
*Phyllosticta* sp., Leaf spot; Payne.  
*Puccinia virgata* Ell. & Ev., Rust; Payne.  
*Stagonospora* sp., Leaf spot; Payne.

## SORGHUM

- S. **HALEPENSE** (L.) Pers., **JOHNSONGRASS**.  
*Cercospora sorghi* Ell. & Ev., Leaf spot; Seminole.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Murray, Payne.  
*Helminthosporium turcicum* Pass., Leaf blight; Payne, Seminole.  
*Monascus purpureus* Went, Mold; Payne.  
*Pseudomonas syringae* van Hall, Leaf spot; Woodward.  
*Puccinia purpurea* Cke., Rust; Payne, Stephens, Woods, Woodward.  
*Sphacelotheca cruenta* (Kuhn) Potter, Loose kernel smut; Marshall, Muskogee, Payne, Seminole, Stephens.  
*Sphacelotheca sorghi* (Link) Clint., Covered kernel smut; Carter, Cleveland, Marshall, Payne, Seminole.  
*Titaeospora sorghi* (Ell. & Ev.) Olive, ined. (*Septorella sorghi* Ell. & Ev.), Leaf spot; Murray, Payne.  
*Xanthomonas holcicola* (Ell.) Starr & Burkh., Bacterial streak; Oklahoma.
- S. **VULGARE** Pers., **SORGHUM**.  
*Alternaria* sp., Leaf spot; Alfalfa, Payne.  
*Ascochyta sorghina* Sacc., Leaf spot; Garvin.  
*Aspergillus niger* Van Tiegh., Mold; general with collections from Comanche, Kay, Payne.  
*Cephalothecium* sp., Leaf spot; Alfalfa.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Custer, Garvin, McClain, Payne.  
*Fusarium* spp., Root & stalk rots; Alfalfa, Comanche, Grady, Payne, Woodward.  
*Helminthosporium* sp., Root rot; Comanche, Payne, Seminole, Woodward.  
*Nigrospora sphaerica* (Sacc.) Mason, Kernel rot; Payne.  
*Phoma* sp., Root rot; Woodward.  
*Pseudomonas alboprecipitans* Rosen; Payne.  
*Pseudomonas andropogoni* (E.F.Sm.) Stapp, Bacterial stripe; Alfalfa, Canadian, Cotton, Garfield, Harper, Hughes, Johnston, Muskogee, Payne, Seminole, Tillman, Woods, Woodward.  
*Pseudomonas syringae* van Hall, Bacterial eye spot; Adair, Alfalfa, Bryan, Canadian, Cherokee, Cotton, Delaware, Garfield, Garvin, Harper, Hughes, Johnston, Le Flore, Muskogee, Payne, Seminole, Sequoyah, Tillman, Woods, Woodward.  
*Puccinia purpurea* Cke., Rust; Comanche, Payne, Rogers, Seminole, Woodward.

## SORGHUM—Continued.

*Pythium arrhenomanes* Elliot, Milo disease; Canadian, Delaware, Hughes, Nowata, Payne, Woodward.

*Sclerotium bataticola* Taub., Charcoal rot; general with collections from Comanche, Hughes, Payne, Woodward.

*Sphacelotheca cruenta* (Kuhn) Potter, Loose kernel smut; Payne.

*Sphacelotheca reiliana* (Kuhn) Clint., Head smut.

*Sphacelotheca sorghi* (Lk.) Clint., Covered kernel smut; Adair, Bryan, Cherokee, Comanche, Craig, Delaware, Garfield, Johnston, Kiowa, Le Flore, Lincoln, Mayes, Muskogee, Nowata, Payne, Seminole, Sequoyah, Texas, Washita, Woodward.

*Titaeospora sorghi* (Ell. & Ev.) Olive, ined. (*Septorella sorghi* Ell. & Ev.), Leaf spot; Bryan, Payne.

*Xanthomonas holcicola* (Ell.) Starr & Burk., Bacterial streak; Alfalfa, Canadian, Cotton, Garfield, Harper, Hughes, Payne, Woods, Woodward.

*Nonparasitic*, Iron deficiency; Ellis, Payne, Washita.

S. VULGARE var. SUDANENSE (Piper) Hitchc., SUDAN-GRASS.

*Fusarium* sp., Red root rot.

*Helminthosporium* sp., Root rot; Seminole.

*Sclerotium bataticola* Taub., Charcoal rot.

S. VULGARE var. TECHNICUM (Koern.) Jav., BROOM-CORN.

*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Garvin, McClain, Payne, Stephens.

*Fusarium moniliforme* Sheld., Pink rot; Stephens.

*Sclerotium bataticola* Taub., Charcoal rot; McClain, Payne, Woodward.

*Titaeospora sorghi* (Ell. & Ev.) Olive, ined. (*Septorella sorghi* Ell. & Ev.), Leaf spot; Garvin, Payne.

## SPARTINA

S. GRACILIS Trin., ALKALI CORDGRASS.

*Puccinia peridermiospora* (Ell. & Tr.) Arth., Rust.

S. PECTINATA Link, PRAIRIE CORDGRASS.

*Puccinia peridermiospora* (Ell. & Tr.) Arth., Rust; general with collection from Payne.

*Puccinia seymouriana* Arth., Rust; Craig.

## SPECULARIA

S. BIFLORA (R. & P.) Fisch. & Mey., SMALL VENUS-LOOKINGGLASS.

*Septoria speculariae* Berk. & Curt., Leaf spot; Payne.

## SPECULARIA—Continued.

- S. PERFOLIATA (L.) A. DC., CLASPING VENUSLOOK-  
INGGLASS.

*Septoria speculariae* Berk.& Curt., Leaf spot; Delaware, Payne.

## SPHAERALCEA

- S. COCCINEA (Pursh) Rydb., SCARLET GLOBE-  
MALLOW.

*Puccinia sherardiana* Korn., Rust.

## SPHENOPHOLIS

- S. INTERMEDIA Rydb., SLENDER WEDGESCALE.  
*Ascochyta graminicola* Lib., Leaf spot; Delaware.

- S. OBTUSATA (Michx.) Scribn., PRAIRIE WEDGE-  
SCALE.

*Puccinia eatoniae* Arth., Rust.

## SPINACIA

- S. OLERACEA L., SPINACH.

*Albugo occidentalis* Wilson, White rust; Le Flore, Muskogee, Sequoyah, Wagoner.

*Cercospora* sp., Leaf spot; Seminole.

*Heterodera marioni* (Cornu) Goodey, Root knot; Muskogee, Tulsa.

*Heterosporium variabile* Cke., Leaf spot; Haskell, Le Flore, Muskogee, Sequoyah, Tulsa, Wagoner.

*Macrosporium cheiranthi* (Lib.) Fr., Leaf spot; Muskogee.

*Peronospora effusa* (Grev.) Rabh., Downy mildew; Blue mold; Haskell, Le Flore, McIntosh, Muskogee, Sequoyah, Tulsa, Wagoner.

*Virus*, Cucumber mosaic virus; Le Flore, Muskogee.

*Virus*, Curly top; Le Flore, Muskogee.

## SPIRAEA

- S. JAPONICA L. f., JAPANESE SPIREA.

*Cercospora physocarpa* Ray, Leaf spot; Payne.

## SPOROBOLUS

- S. AIROIDES (Torr.) Torr., ALKALI SACATON.

*Puccinia luxuriosa* Syd., Rust.

- S. ASPER (Michx.) Kunth, TALL DROPSEED.

*Chaetomella atra* Fekl.; Tulsa.

*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Hughes.

*Puccinia vilfae* Arth.& Holw., Rust.

## SPOROBOLUS—Continued.

- S. ASPER var. HOOKERI (Trin.) Vasey, MEADOW TALL DROPSEED.  
*Selenophoma* sp.; Payne.
- S. CLANDESTINUS (Spreng.) Hitchc., HIDDEN DROP-SEED.  
*Cercospora seriata* Atk., Leaf spot; Payne.  
*Septoria* sp., Leaf spot; Payne.
- S. CRYPTANDRUS (Torr.) A. Gray, SAND DROPSEED.  
*Phyllachora vulgata* Theissen & Sydow, Black spot; Grady.  
*Puccinia simulans* (Peck) Barth., Rust.
- S. HETEROLEPIS A. Gray, PRAIRIE DROPSEED.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils., Anthracnose; Osage.
- S. NEGLECTUS Nash, PUFFSHEATH DROPSEED.  
*Puccinia vilfae* Arth. & Holw., Rust; Payne.
- S. VAGINIFLORUS (Torr.) Wood, POVERTY DROP-SEED.  
*Chaetomella atra* Fckl.; Payne.  
*Selenophoma* sp., Payne.

## STAPELIA

- S. SP., CARRIONFLOWER.  
*Diplodia* sp.; Payne.

## STAPHYLEA

- S. TRIFOLIA L., AMERICAN BLADDERNUT.  
*Cercospora staphyleae* Ray & McLaughlin, Leaf spot; Payne.

## STELLARIA

- S. MEDIA (L.) Cyrill., CHICKWEED.  
*Synchytrium stellariae* Fckl.; Payne.

## STENOSIPHON

- S. LINIFOLIUS (Nutt.) Britton, FLAXLEAF STENOSIPHON.  
*Cercospora* sp., Leaf spot; Murray.

## STILLINGIA

- S. SYLVATICA L., QUEENSDELIGHT STILLINGIA.  
*Cuscuta* sp., Dodder; Muskogee.  
*Uromyces graminicola* Burr., Rust; Beaver, Payne.

## STIPA

- S. COMATA Trin., NEEDLEANDTHREAD.  
*Ustilago minima* Arth., Smut; Payne, Woodward.

## STROPHOSTYLES

- S. HELVOLA (L.) Britton, TRAILING WILDBEAN.  
*Phyllosticta phaseolina* Sacc., Leaf spot; Payne, Pittsburg.  
*Uromyces phaseoli strophostylis* (Pers.) Arth., Rust; Lincoln, Payne, Seminole.
- S. PAUCIFLORA (Benth.) S. Wats., SMALL WILDBEAN.  
*Ascochyta* sp., Leaf spot; Payne.  
*Erysiphe polygoni* DC., Powdery mildew; Ottawa.  
*Uromyces phaseoli strophostylis* (Pers.) Arth., Rust; Logan, Payne, Tulsa.

## SYMPHORICARPOS

- S. ORBICULATUS Moench, INDIAN CURRANT  
 CORALBERRY.  
*Microsphaera diffusa* Cke. & Pk., Powdery mildew; Major, Murray, Payne.  
*Puccinia crandallii* Pam. & Hume, Rust; Delaware.
- S. SP., SNOWBERRY.  
*Phyllosticta symphoricarpi* Westd., Leaf spot; Payne.

## SYRINGA

- S. PERSICA L., PERSIAN LILAC.  
*Microsphaera alni* DC. ex Wint., Powdery mildew; Payne.
- S. VULGARIS L., COMMON LILAC.  
*Cercospora macromaculans* Heald & Wolf, Leaf spot.  
*Cladosporium herbarum* Lk., Leaf blotch, Payne, Tulsa.  
*Microsphaera alni* DC. ex Wint., Powdery mildew; Grady, Payne, Pontotoc.  
*Phyllosticta syringae* West., Leaf spot; Pittsburg.  
*Sphaeropsis syringae* Pk. & Clint., Payne.  
*Stereum purpureum* Pers., Wood rot.

## TARAXACUM

- T. OFFICINALE Weber, COMMON DANDELION.  
*Puccinia hieracii* (Schum.) Mart., Rust; Payne.

## TEPHROSIA

- T. VIRGINIANA (L.) Pers., VIRGINIA TEPHROSIA.  
*Ravenelia epiphylla* (Schw.) Diet., Rust; Craig.

## TETRAGONIA

- T. EXPANSA Murr., NEW ZEALAND SPINACH.  
*Alternaria* sp., Leaf spot; Woodward.

## TEUCRIUM

- T. CANADENSE L., AMERICAN GERMANDER.  
*Cercospora teucrii* Ell. & Kell., Leaf spot; Payne.  
*Peronospora* sp., Downy mildew; Payne.

## THUJA

- T. OCCIDENTALIS L., EASTERN ARBORVITAE.  
*Alternaria* sp., Leaf blotch; Muskogee.  
*Coryneum thuinum* Dearn., Twig blight; Kay, Muskogee.  
*Cytospora* sp., Canker; Muskogee, Pittsburg.  
*Mycosphaerella thujae* Petr., Leaf spot; Okmulgee.  
*Pestalotia funerea* Desm., Twig blight; Kay, Payne.  
*Phomopsis juniperovora* G. Hahn, Nursery blight; Payne.  
*Nonparasitic*, Drought & Sun scald.

## TILIA

- T. AMERICANA L., AMERICAN LINDEN: BASSWOOD.  
*Cercospora tragopoeanis* Ell. & Ev., Leaf spot; Payne.

## TITHONIA

- T. ROTUNDIFOLIA (Mill.) Blake, SCARLET TITHONIA.  
*Alternaria* sp., Leaf spot; Payne.

## TRAGIA

- T. NEPETAEFOLIA Cav., CATNIP-LEAVED TRAGIA.  
*Cuscuta coryli* Engelm., Dodder; Greer.

## TRAGOPOGON

- T. PORRIFOLIUS L., VEGETABLE-OYSTER SALSIFY.  
*Cercospora tragopogonis* Ell. & Ev., Leaf spot; Payne.  
*Erysiphe cichoracearum* DC., Powdery mildew; Payne.  
*Heterodera marioni* (Cornu) Goodey, Root knot.

## TRIBULUS

- T. TERRESTRIS L., PUNCTUREVINE.  
*Cuscuta cuspidata* Engelm., Dodder; Grady.  
*Phyllosticta* sp., Leaf spot; Jackson.

## TRIFOLUM

- T. CAROLINIANUM Michx., CAROLINA CLOVER.  
*Uromyces elegans* (Berk.) Lagerh., Rust; Delaware,  
Le Flore, Mayes, McCurtain, Payne, Pushmataha.
- T. HYBRIDUM L., ALSIKE CLOVER.  
*Cercospora zebrina* Pass., Leaf spot; McCurtain.
- T. PRATENSE L., RED CLOVER.  
*Uromyces trifolii fallens* (Desm.) Arth., Rust.
- T. PROCUMBENS L., LOW HOP CLOVER.  
*Uromyces elegans* (Berk.) Lagerh., Rust; Le Flore.
- T. SPP., CLOVER.  
*Colletotrichum trifolii* Bain, Anthracnose.  
*Erysiphe polygoni* DC., Powdery mildew.  
*Pseudopeziza trifolii* (Bernh.) Fckl., Leaf spot.  
*Sclerotinia trifoliorum* Erikss., Root rot.

## TRILLIUM

- T. RECURVATUM Beck, PRAIRIE TRILLIUM.  
*Septoria trillii* Pk., Leaf spot; Adair, Cherokee.

## TRIODIA

- T. ALBESCENS Vasey, WHITE TRIODIA.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Payne.
- T. ELONGATA (Buckl.) Scribn., ROUGH TRIODIA.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Tulsa.
- T. FLAVA (L.) Smyth, PURPLETOP: TALL REDTOP.  
*Dothichloe atramentosa* (B.& C.) Atk., Black crust;  
Lincoln.  
*Puccinia windsoriae* Schw., Rust; Payne.  
*Selenophoma* sp., Leaf spot; Payne.  
*Ustilago tricuspidis* Ell. & Gall., Smut; Pittsburg.
- T. STRICTA (Nutt.) Benth., LONGSPIKE TRIODIA.  
*Selenophoma* sp., Leaf spot; Payne.

## TRIOSETUM

- T. PERFOLIATUM L., COMMON HORSEGEANTIAN.  
*Cylindrosporium trioseti* Kell. & Swingle, Leaf spot;  
Delaware.

## TRIPLASIS

- T. PURPUREA (Walt.) Chapm., PURPLE SANDGRASS.  
*Puccinia schedonnardi* Kell. & Swingle, Rust; Payne.

## TRIPSACUM

- T. DACTYLOIDES L., EASTERN GAMAGRASS.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Kay, Payne.

## TRITICUM

- T. AESTIVUM L., WHEAT.  
*Cladosporium* sp., Mold; Alfalfa.  
*Claviceps purpurea* (Fr.) Tul., Ergot.  
*Colletotrichum graminicolum* (Ces.) G.W.Wils.,  
Anthracnose; Grant.  
*Curvularia spicifera* (Bainier) Boedijn, Foot rot;  
Woodward.  
*Erysiphe graminis* DC., Powdery mildew; Payne.  
*Fusarium* spp., Foot rot: Root rot; general with collec-  
tions from Alfalfa, Canadian, Cimarron, Garfield.  
*Gibberella zeae* (Schw.) Petch, Scab; general with col-  
lections from Delaware, Garfield, Payne, Seminole,  
Tillman.  
*Helminthosporium sativum* Pam., King, & Bakke, Foot  
rot; Alfalfa, Blaine, Caddo, Canadian, Ellis, Garfield,  
Harper, Kay, Kingfisher, Kiowa, Logan, Noble, Nowata,  
Payne, Pittsburg, Seminole, Tulsa, Woods.  
*Helminthosporium* spp., Leaf spot; Alfalfa, Cimarron.  
*Heterosporium* sp., Glume blotch; Custer.  
*Pseudomonas atrofaciens* (McCul.) Stapp, Basal glume  
rot.  
*Puccinia graminis tritici* Erikss.& Henn., Stem rust;  
general with collections from Beckham, Delaware,  
Dewey, Garvin, Kay, Kiowa, Logan, Mayes, McClain,  
Noble, Pawnee, Payne, Seminole, Woods,  
Woodward.  
*Puccinia rubigo-vera tritici* (Erikss.& Henn.) Carleton,  
Leaf rust; general with collections from Blaine,  
Canadian, Choctaw, Custer, Delaware, Garfield, Grady,  
Harper, Kingfisher, Le Flore, Lincoln, Logan, Noble,  
Oklahoma, Osage, Payne, Seminole, Tulsa, Wagoner,  
Woods, Woodward.  
*Pythium* sp., Root rot; Cimarron.  
*Rhizoctonia* sp., Root rot; Blaine, Canadian, Texas,  
Woodward.  
*Septoria nodorum* Berk., Glume blotch; Payne.  
*Septoria tritici* Desm., Speckled leaf blotch; general  
with collections from Canadian, Custer, Garfield,  
Grant, Kingfisher, Payne, Seminole, Tulsa.

## TRITICUM—Continued.

*Stemphylium tritici* Patterson.

*Tilletia caries* (DC.) Tul., Rough spored bunt; general with collection from Payne.

*Tilletia foetida* (Wallr.) Liro, Smooth spored bunt; general with collections from Payne.

*Ustilago tritici* (Pers.) Rostr., Loose smut; general with collections from Caddo, Canadian, Comanche, Kingfisher, Kiowa, Noble, Payne, Seminole, Wagoner.

*Xanthomonas translucens* f. sp. *undulosa* (E.F.Sm., L.R. Jones, & Reddy) Hagb., Black chaff; Delaware, Grady, Muskogee, Oklahoma, Payne, Seminole, Tulsa, Washita, Woods.

*Virus*, Mosaic; Payne.

T. DICOCIMUM Schrank, EMMER.

*Puccinia graminis tritici* Erikss. & Henn., Stem rust.

T. SPELTA L., SPELT.

*Alternaria* sp., Mold; general with collection from Canadian.

*Puccinia graminis tritici* Erikss. & Henn., Stem rust.

*Puccinia rubigo-vera tritici* (Erikss. & Henn.) Carleton, Leaf rust.

## TROPÆOLUM

T. MAJUS L., COMMON NASTURTIUM.

*Pleospora tropaeoli* Halst., Leaf spot; Payne.

## TULIPA

T. SPP., TULIP.

*Aspergillus* sp., Bulb rot; Oklahoma.

*Botrytis tulipae* (Lib.) E.F.Hopkins, Botrytis blight.

*Fusarium* sp., Bulb rot; Oklahoma.

*Penicillium* sp., Bulb rot; Oklahoma.

## TYPHA

T. LATIFOLIA L., COMMON CATTAIL.

*Cladosporium fasciculatum* Cda.; Payne.

## ULMUS

U. ALATA Michx., WINGED ELM: WAHOO.

*Gloeosporium inconspicuum* Cav., Leaf spot; Seminole.

*Phoradendron flavescens* (Pursh) Nutt., Mistletoe; McClain.

*Uncinula macrospora* Pk., Powdery mildew; Atoka.

U. AMERICANA L., AMERICAN ELM.

*Coniothyrium ulmi* Tharp, Leaf spot; Payne.

*Dothiorella ulmi* Verrall & May, Dieback & Wilt.

## ULMUS—Continued.

- Gloeosporium inconspicuum* Cav., Leaf spot; Payne, Seminole.
- Gloeosporium ulmeum* Miles, Leaf spot; Payne.
- Gnomonia ulmea* (Schw. ex Fr.) Thum., Black spot; Muskogee, Oklahoma, Payne, Tulsa.
- Heterodera marioni* (Cornu) Goodey, Root knot.
- Lophiostoma asperum* Ell. & Ev.; Oklahoma.
- Peniophora* sp., Woodward.
- Phoradendron flavescens* (Pursh) Nutt., Mistletoe; Haskell, McClain, Tulsa.
- Phyllosticta erratica* Ell. & Ev., Leaf spot; Delaware.
- Phyllosticta melaleuca* Ell. & Ev., Leaf spot; Oklahoma.
- Polyporus conchifer* (Schw.) Fr., Wood rot; Payne.
- U. AMERICANA var. PENDULA Ait., WEEPING ELM.
- Nectria cinnabarina* Tode ex Fr., Canker; Payne.
- U. CRASSIFOLIA Nutt., CEDAR ELM.
- Coniothyrium ulmi* Tharp, Leaf spot.
- U. FULVA Michx., SLIPPERY ELM.
- Dothiorella ulmi* Verrall & May, Dieback & Wilt.
- Gloeosporium* Miles, Leaf spot; Payne.
- Mycosphaerella ulmi* Kleb., Leaf spot; Payne.
- Phoradendron flavescens* (Pursh) Nutt., Mistletoe; McClain.
- Phyllosticta* sp., Leaf spot; Payne.
- Taphrina ulmi* (Fckl.) Johans., Leaf blister; Payne.
- Uncinula macrospora* Pk., Powdery mildew; Lincoln, Payne.
- U. PUMILA L., SIBERIAN ELM.
- Chalaropsis thielavioides* Peyronel, Seedling root rot.
- Gloeosporium inconspicuum* Cav., Twig blight; Payne.
- Gloeosporium ulmicolum* Miles, Leaf spot; Beckham, Payne.
- Heterodera marioni* (Cornu) Goodey, Root knot; Haskell.
- Nectria cinnabarina* Tode ex Fr., Coral spot: Canker; Payne.
- Phymatotrichum omnivorum* (Shear) Dug., Root rot.
- Taphrina ulmi* (Fckl.) Johans., Leaf blister; Payne.
- U. SPP., ELM.
- Armillaria mellea* Vahl ex Fr., Mushroom root rot.
- Cephalothecium* sp.; Adair,
- Coryneum* sp., Leaf spot; Adair.
- Daedalea ambigua* Berk., Wood rot.
- Gloeosporium inconspicuum* Cav., Leaf spot; Canadian, Payne.

## ULMUS—Continued.

- Gnomonia ulmea* (Schw. ex Fr.) Thum., Leaf spot; general with collections from Beckham, Canadian, Creek, Custer, Garvin, Mayes, Muskogee, Nowata, Okfuskee, Oklahoma, Ottawa, Payne, Texas, Tillman, Tulsa.  
*Heterodera marioni* (Cornu) Goodey, Root knot; Payne.  
*Hydnum* sp.; Payne.  
*Nectria cinnabarina* Tode ex Fr., Canker; Okfuskee, Oklahoma.  
*Phoradendron flavescens* (Pursh) Nutt., Mistletoe; McCurtain.  
*Phymatotrichum omnivorum* (Shear) Dug., Texas root rot; Beckham, Tillman.  
*Septoria ulmi* Ell.& Ev., Leaf spot; Canadian.  
*Sphaeropsis ulmicola* Ell.& Ev., Canker; Cotton, Oklahoma.

## UNIOLA

- U. LATIFOLIA Michx., BROADLEAF UNIOLA.  
*Helminthosporium* sp., Leaf spot; Payne.

## URTICA

- U. CHAMAEDRYOIDES Pursh, WEAKSTING NETTLE.  
*Aecidium libertum* Arth., Rust; Creek.

## VACCINIUM

- V. SP.  
*Rhytisma vaccinii* Schw. ex Fr., Tar spot; Delaware.

## VALERIANELLA

- V. RADIATA (L.) Dufr., BEAKED CORNSALAD.  
*Septoria valerianellae* Miles, Leaf spot; Payne.  
V. SP.  
*Peronospora* sp., Downy mildew; Noble.

## VERATRUM

- V. WOODII Robbins, WOODS FALSEHELLEBORE.  
*Puccinia atropuncta* Pk.& Clint., Rust; Le Flore.

## VERBASCUM

- V. BLATTARIA L., MOTH MULLEIN.  
*Septoria verbascicola* Berk.& Curt., Leaf spot; Cherokee.

## VERBENA

- V. BRACTEATA Lag. & Rodr., BIGBRACKT VERBENA.  
*Septoria verbenae* Rob. & Desm., Leaf spot; Payne.
- V. CANADENSIS (L.) Britton, ROSE VERBENA.  
*Puccinia vilfae* Arth. & Holw., Rust.  
*Septoria verbenae* Rob. & Desm., Leaf spot; Comanche, Delaware, Payne.
- V. HYBRIDA Voss, VERBENA.  
*Sclerotium bataticola* Taub., Charcoal rot; Payne.
- V. PUMILA Rydb., VERBENA.  
*Septoria verbenae* Rob. & Desm., Leaf spot; Caddo.
- V. SIMPLEX Lehm., VERBENA.  
*Cuscuta arvensis* Beyrich, Dodder; Muskogee.
- V. STRICTA Vent., WOOLY VERBENA.  
*Puccinia vilfae* Arth. & Holw., Rust.
- V. URTICIFOLIA L., WHITE VERBENA.  
*Erysiphe cichoracearum* DC., Powdery mildew; Payne.  
*Puccinia vilfae* Arth. & Holw., Rust.  
*Septoria verbenae* Rob. & Desm., Leaf spot; McCurtain.

## VERNONIA

- V. BALDWINI Torr., BALDWIN IRONWEED.  
*Cercospora oculata* Ell. & Kell., Leaf spot; Payne.  
*Coleosporium vernoniae* Berk. & Curt., Rust; Okfuskee, Osage, Payne.
- V. CRINITA Raf., BUR IRONWEED.  
*Coleosporium vernoniae* Berk. & Curt., Rust.  
*Puccinia vernoniae* Schw., Rust.
- V. FASCICULATA Michx., WESTERN IRONWEED.  
*Coleosporium vernoniae* Berk. & Curt., Rust.
- V. INTERIOR Small, IRONWEED.  
*Puccinia vernoniae* Schw., Rust.
- V. MISSURICA Raf., MISSOURI IRONWEED.  
*Cercospora vernoniae* Ell. & Kell., Leaf spot; Murray.

## VERONICA

- V. PEREGRINA L., PURSLANE SPEEDWELL.  
*Ramularia veronicae* Fckl., Leaf spot; Payne.

## VIBURNUM

- V. OPULUS L., EUROPEAN CRANBERRYBUSH: HIGH BUSH CRANBERRY.  
*Cercospora varia* Pk., Leaf spot; Payne.  
*Cercospora viburnicola* Ray, Leaf spot; Payne.

## VIBURNUM—Continued.

- V. RUFIDULUM Raf., RUSTY BLACKHAW VIBURNUM.  
*Phyllosticta* sp., Leaf spot; Murray.
- V. TOMENTOSUM Thunb., DOUBLEFILE VIBURNUM:  
JAPANESE SNOWBALL.  
*Cercospora viburnicola* Ray, Leaf spot; Payne.
- V. SP., VIBURNUM.  
*Heterodera marioni* (Cornu) Goodey, Root knot;  
Tulsa.

## VICIA

- V. AMERICANA Muhl., AMERICAN VETCH.  
*Cuscuta indecora* Choisy, Dodder; Comanche.
- V. VILLOSA Roth., HAIRY VETCH.  
*Ascochyta pisi* Lib., Leaf spot; Payne.  
*Colletotrichum viciae* Dearn.& Overh., Leaf spot;  
Payne.  
*Gloeosporium americanum* Ell.& Ev., Leaf spot; Logan.

## VIGNA

- V. CATJANG Walp., CATJANG COWPEA.  
*Pseudomonas syringae* van Hall, Bacterial blight;  
Payne.
- V. SINENSIS (Torner) Savi, COMMON COWPEA.  
*Aristastoma oeconomicum* (Ell.& Tracy) Tehon, Zonate  
leaf spot; Hughes, Payne, Seminole.  
*Cercospora cruenta* Sacc., Leaf spot; general with col-  
lections from Bryan, Carter, Choctaw, Haskell, Hughes,  
McClain, Payne, Seminole, Woodward.  
*Erysiphe polygoni* DC., Powdery mildew; Payne,  
Pottawatomie, Woodward.  
*Fusarium oxysporum* f. *tracheiphilum* (E.F.Sw.) Snyder  
& Hansen, Wilt; Seminole, Woodward.  
*Heterodera marioni* (Cornu) Goodey, Root knot; gen-  
eral with collections from Oklahoma, Payne.  
*Macrophomina phaseoli* (Maubl.) Ashby, Ashy stem  
blight; Pawnee, Payne.  
*Nematospora coryli* Peglion, Yeast spot; Payne.  
*Phoma terrestris* Hansen; Payne.  
*Phyllosticta phaseolina* Sacc., Leaf spot; Payne.  
*Phymatotrichum omnivorum* (Shear) Dug., Texas root  
rot; Carter, Choctaw, Tillman.  
*Pseudomonas syringae* van Hall, Bacterial blight; gen-  
eral with collections from Payne, Seminole.  
*Sclerotium bataticola* Taub., Charcoal rot; Comanche,  
Payne, Pottawatomie.

## VIGNA—Continued.

- Sclerotium rolfsii* Sacc., Southern blight; Muskogee.  
*Uromyces phaseoli vignae* (Barcl.) Arth., Rust; Carter, Cleveland, McClain, Oklahoma, Payne, Woodward.  
*Xanthomonas phaseoli* (E.F.Sm.) Dowson, Bacterial blight; Payne, Seminole.  
*Xanthomonas vignicola* Burk., Bacterial crown canker; Comanche, Creek, Hughes, Pawnee, Payne, Pottawatomie, Stephens, Woodward.  
*Virus*, Mosaic; Payne, Seminole.

## VINCETOXICUM

## V. SP., ANGLEPOD.

- Puccinia obliqua* Berk.& Curt., Rust; Payne.

## VIOLA

## V. MISSOURIENSIS GREENE, MISSOURI VIOLET.

- Cercospora violae* Sacc., Leaf spot; Murray.  
*Colletotrichum violae-rotundifoliae* (Sacc.) House, Anthracnose; Payne.

*Puccinia violae* (Schum.) DC., Rust; Payne.

## V. PAPILIONACEA Pursh, BUTTERFLY VIOLET.

- Cercospora granuliformis* Ell.& Holw., Leaf spot; Payne.  
*Cercospora violae* Sacc., Leaf spot; Payne.  
*Colletotrichum violae-tricoloris* R.E.Sm., Anthracnose; Payne.

*Puccinia violae* (Schum.) DC., Rust.

## V. SP., VIOLET.

- Puccinia violae* (Schum.) DC., Rust; Kay.

## VITEX

## V. AGNUSCASTUS L., LILAC CHASTETREE.

- Cercospora viticis* Ell.& Ev., Leaf spot; Payne.  
*Phoma* sp., Payne.

## VITIS

## V. BERLANDIERI Planch., WINTER GRAPE.

- Guignardia bidwellii* (Ell.) Viala & Ravaz, Black rot.

## V. CINEREA Engelm., SWEET WINTER GRAPE.

- Phyllosticta viticola* (Berk.& Curt.) Thum., Leaf spot; Payne.

## V. MUNSONIANA Simpson, BIRD GRAPE.

- Guignardia bidwellii* (Ell.) Viala & Ravaz, Black rot.

## V. RUPESTRIS Scheele, SAND GRAPE.

- Phyllosticta viticola* (Berk.& Curt.) Thum., Leaf spot; Cherokee, McCurtain.  
*Plasmopara viticola* (Berk.& Curt.) Berl.& De Toni, Downy mildew; Payne.

## VITIS—Continued.

## V. SPP., GRAPE.

- Agrobacterium tumefaciens* (E.F.Sm.& Town.) Conn, Crown gall.  
*Alternaria* sp., Leaf & stem blotch; Nowata.  
*Clitocybe monadelpha* (Morgan) Sacc., Root rot.  
*Elsinoe ampelina* (DeBy.) Shear, Anthracnose; general with collections from Cherokee, Craig, Garfield, Grady, Muskogee, Payne, Tulsa.  
*Eutypella vitis* (Schw. ex Fr.) Ell.& Ev.; Payne.  
*Guignardia bidwellii* (Ell.) Viala & Ravaz, Black rot; general with collections from Blaine, Bryan, Cherokee, Cleveland, Coal, Creek, Dewey, Garfield, Garvin, Grady, Johnston, Le Flore, Logan, McCurtain, Oklahoma, Okmulgee, Payne, Seminole, Washington, Woodward.  
*Heterodera marioni* (Cornu) Goodey, Root knot.  
*Melanconium fuligineum* (Scrib.& Viala) Cav., Bitter rot; Payne.  
*Monilinia fructicola* (Wint.) Honey, Brown rot; McClain, Muskogee.  
*Plasmopara viticola* (Berk.& Curt.) Berl.& De Toni, Downy mildew; general with collections from Haskell, Okmulgee, Osage, Payne, Woodward.  
*Uncinula nectar* (Schw.) Burr., Powdery mildew.  
*Nonparasitic*, Measles & Water berry.

## WISTARIA

## W. SP., WISTARIA.

- Septoria wistariae* Tharp, Leaf spot; Oklahoma.

## XANTHIUM

- X. CHINESE Mill., COCKLEBUR.  
*Puccinia xanthii* Schw., Rust; Delaware, Le Flore.  
X. CHINENSE Mill., COCKLEBUR.  
*Puccinia xanthii* Schw., Rust.  
X. INFLEXUM Mackenzie & Bush, COCKLEBUR.  
*Puccinia xanthii* Schw., Rust.  
X. ITALICUM Mor., ITALIAN COCKLEBUR.  
*Puccinia xanthii* Schw., Rust.  
X. ORIENTALE L., ORIENTAL COCKLEBUR.  
*Puccinia xanthii* Schw., Rust.  
X. SPECIOSUM Kearney, GREAT COCKLEBUR.  
*Puccinia xanthii* Schw., Rust.  
X. SPP., COCKLEBUR.  
*Puccinia canaliculata* (Schw.) Lagerh., Rust.  
*Puccinia xanthii* Schw., Rust; Comanche, Haskell, Kay, Muskogee, Payne.

## YUCCA

- Y. FILAMENTOSA L., ADAMSNEEDLE YUCCA.  
*Cercospora concentrica* Ck. & Ell., Leaf spot; Payne.  
*Kellermania yuccigena* Ell. & Ev., Leaf spot; Woodward.
- Y. GLAUCA Nutt., SMALL SOAPWEED.  
*Cylindrosporium angustifolium* Ell. & Kell., Leaf spot; Payne.  
*Didymella sphaerelloides* Sacc., Leaf spot; Oklahoma.  
*Kellermania yuccigena* Ell. & Ev., Leaf spot; Payne, Woodward.

## ZANTHOXYLUM

- Z. AMERICANUM Mill., COMMON PRICKLYASH.  
*Puccinia andropogonis xanthoxyli* (Pk.) Arth., Rust; Payne.
- Z. CLAVA-HERCULIS L., HERCULES' CLUB.  
*Puccinia andropogonis xanthoxyli* (Pk.) Arth., Rust; Payne.

## ZEA

- Z. MAYS L., CORN.  
*Alternaria* spp., Mold; general with collections from Alfalfa, Hughes, Payne, Washington.  
*Aspergillus niger* van Teigh., Ear mold; general with collections from Alfalfa, Creek, Payne, Pottawatomie, Seminole, Tulsa.  
*Bacterium stewartii* E.F.Sm., Bacterial wilt; Stewart's disease; Bryan, Canadian, Hughes, Okfuskee, Seminole.  
*Diplodia frumenti* Ell. & Ev., Stalk rot; Payne.  
*Diplodia zeae* Lev., Dry rot; general with collections from Bryan, Choctaw, Coal, Craig, Creek, Delaware, Dewey, Garvin, Johnston, McClain, Noble, Nowata, Oklahoma, Okmulgee, Osage, Payne, Pittsburg, Seminole, Tulsa.  
*Fusarium moniliforme* Sheld., Ear rot; general with collections from Craig, Delaware, Dewey, Johnston, Nowata, Payne, Pottawatomie, Seminole.  
*Fusarium* spp., Damping off: Rot & Stalk rot; general with collections from Alfalfa, Noble, Oklahoma, Payne, Pottawatomie, Roger Mills, Washington.  
*Gibberella zeae* (Schw.) Petch, Scab; general with collections from Mayes, Payne.  
*Helminthosporium turcicum* Pass., Leaf blight; Hughes, Latimer, Payne, Pittsburg.  
*Helminthosporium* sp., Leaf spot; Alfalfa.

## ZEA—Continued.

*Heterodera marioni* (Cornu). Goodey, Root knot; Okfuskee.

*Penicillium* spp., Blue mold; general.

*Physoderma zeae-maydis* Shaw, Brown spot; general with collections from Garvin, Hughes, Payne, Stephens.

*Phytomonas dissolvens* H. R. Rosen, Bacterial stalk rot; Grady, Hughes, Pawnee.

*Puccinia sorghi* Schw., Rust; general with collections from Garvin, Hughes, Okmulgee, Payne, Seminole.

*Pythium debaryanum* Hesse; Payne.

*Rhizoctonia solani* Kuhn, Root rot; general.

*Rhizopus nigricans* Ehrenb. ex Fr., Seed blight; general.

*Sclerospora graminicola* (Sacc.) Schroet., Leaf spot; Stephens.

*Sclerotium bataticola* Taub., Charcoal rot; general with collections from Comanche, Oklahoma, Payne.

*Sphacelotheca reiliana* (Kuhn) Clint., Head smut; Alfalfa.

*Ustilago maydis* (DC.) Cda., Corn smut; general with collections from Choctaw, Comanche, Custer, Dewey, Garfield, Garvin, Hughes, Johnston, Latimer, McClain, Payne, Pittsburg, Pottawatomie, Seminole, Tillman, Woodward.

*Virus*, Mosaic.

## ZINNIA

## Z. ELEGANS Jacq., COMMON ZINNIA.

*Alternaria* sp., Leaf spot; Payne.

*Cicinnobolus cesatii* DeBy., on *Erysiphe cichoracearum* DC.; Payne.

*Erysiphe cichoracearum* DC., Powdery mildew; general with collections from McCurtain, Payne, Washita.

*Sclerotium bataticola* Taub., Charcoal rot; Payne, Tulsa.

*Virus*, Mosaic; Payne.

## ZIGADENUS

## Z. NUTTALLII Gray, NUTTALL DEATHCAMAS.

*Uromyces zygadeni* Pk., Rust; Cherokee.

## ZIZYPHUS

## Z. JUJUBA Mill., COMMON JUJUBE.

*Alternaria* sp., Leaf spot; Woodward.

## Index to Pathogens or Causal Agents

### ACTINOMYCES IPOMOEAE

*Ipomoea batatas*

### ACTINOMYCES SCABIES

*Solanum tuberosum*

### ACTINOPELTE DRYINA

*Quercus muhlenbergii*

### AECIDIUM LIBERTUM

*Urtica chamaedryoides*

### AECIDIUM MEXICANUM

*Cissus incisa*

### AECIDIUM PHYSALIDIS

*Physalis pumila*

*Physalis virginiana*

### AECIDIUM RESIDUUM

*Sisyrinchium gramineum*

### AGROBACTERIUM RHIZO- GENES

*Caragana arborescens*

*Fraxinus americana*

*Malus sylvestris*

### AGROBACTERIUM TUME- FACIENS

*Acer saccharinum*

*Acer* sp.

*Carya illinoensis*

*Gossypium hirsutum*

*Jasminum humile*

*Lespedeza* sp.

*Malus sylvestris*

*Medicago sativa*

*Prunus persica*

*Prunus* spp. (Cherry)

*Prunus* spp. (Plum)

*Ribes* spp. (Gooseberry)

*Rosa* spp.

*Rubus* spp. (Blackberry)

*Rubus* sp. (Boysenberry)

*Rubus* sp. (Dewberry)

*Rubus* sp. (Raspberry)

*Vitis* spp.

### ALBUGO BLITI

*Acnida tamariscina*

*Amaranthus retroflexus*

*Amaranthus spinosus*

### ALBUGO CANDIDA

*Arabis laevigata*

*Armoracia rusticana*

*Brassica juncea*

*Brassica rapa*

*Brassica* sp.

*Camelina microcarpa*

*Camelina sativa*

*Capsella bursa-pastoris*

*Descurainia pinnata*

*Raphanus sativus*

*Sisymbrium altissimum*

### ALBUGO IPOMOEAE- PANDURANAE

*Ipomoea hederacea*

*Ipomoea pandurata*

*Ipomoea purpurea*

*Quamoclit coccinea*

### ALBUGO OCCIDENTALIS

*Spinacia oleracea*

### ALBUGO PORTULACAE

*Portulaca oleracea*

### ALBUGO TRAGOPOGONIS

*Antennaria plantaginifolia*

*Cirsium undulatum* var.

*megacephalum*

### ALTERNARIA CATALPAE

*Catalpa speciosa*

### ALTERNARIA CIRCINANS

*Brassica oleracea* var.

*botrytis*

*Brassica oleracea* var.

*capitata*

**ALTERNARIA CRASSA**

*Datura meteloides*  
*Datura stramonium*

**ALTERNARIA FASCICULATA**

*Asclepiodora viridis*  
*Asparagus officinalis*  
*Phaseolus vulgaris*  
*Robinia hispida*

**ALTERNARIA NELUMBII**

*Nelumbo lutea*

**ALTERNARIA SOLANI**

*Capsicum frutescens*  
*Lycopersicon esculentum*  
*Solanum tuberosum*

**ALTERNARIA SONCHI**

*Sonchus asper*

**ALTERNARIA TENUIS**

*Ptelea trifoliata*

**ALTERNARIA TOMATO**

*Lycopersicon esculentum*

**ALTERNARIA SPP.**

*Amaranthus retroflexus*  
*Cercis canadensis*  
*Chrysanthemum* spp.  
*Cornus asperifolia*  
*Elaeagnus angustifolia*  
*Forsythia intermedia*  
*Gleditsia triacanthos*  
*Gomphrena globosa*  
*Gomphrena* sp.  
*Gossypium hirsutum*  
*Ilex* sp.  
*Ipomoea batatas*  
*Juniperus* spp.  
*Jussiaea decurrens*  
*Lactuca sativa*  
*Medicago sativa*  
*Paeonia* spp.  
*Rheum rhaponticum*  
*Sambucus* spp.  
*Sorghum vulgare*  
*Tetragonia expansa*

*Thuja occidentalis*  
*Tithonia rotundifolia*  
*Triticum spelta*  
*Vitis* spp.  
*Zea mays*  
*Zinnia elegans*  
*Zizyphus jujuba*

**ANGUILLULINA AGROSTIS**

*Buchloe dactyloides*

**APHANOMYCES RAPHANI**

*Raphanus sativus* (Garden  
 & White Icicle Radish)

**ARISTASTOMA OECONOMICUM**

*Vigna sinensis*

**ARMILLARIA MELLEA**

*Acer* spp.  
*Crataegus* spp.  
*Ligustrum vulgare*  
*Malus sylvestris*  
*Morus alba*  
*Platanus occidentalis*  
*Prunus persica*  
*Prunus* spp. (Cherry)  
*Prunus* spp. (Plum)  
*Rosa* spp.  
*Rubus* spp. (Blackberry)  
*Ulmus* spp.

**ASCOCHYTA AGROPYRINA**

*Agropyron trachycaulum*

**ASCOCHYTA ELYMI**

*Elymus canadensis*

**ASCOCHYTA GOSSYPII**

*Gossypium hirsutum*

**ASCOCHYTA GRAMINICOLA**

*Sphenopholis intermedia*

**ASCOCHYTA IMPERFECTA**

*Medicago sativa*

**ASCOCHYTA PISI**

*Crotalaria spectabilis*  
*Melilotus alba*  
*Pisum sativum*

*Pisum sativum* var.  
*arvense*  
*Vicia villosa*

*Nicotiana tabacum*  
*Phaseolus vulgaris*  
*Solanum melongena*  
*Solanum tuberosum*

## ASCOCHYTA PLANTAGINIS

*Plantago aristata*  
*Plantago major*

BACTERIUM STEWARTII  
*Zea mays*

## ASCOCHYTA SILENES

*Silene antirrhina*

BACTERIUM SP.  
*Setaria lutescens*

## ASCOCHYTA SORGHINA

*Sorghum vulgare*

BOTRYOSPHAERIA RHIZ-  
 OGENA  
*Gleditsia triacanthos*

## ASCOCHYTA SPP.

*Aegilops cylindrica*  
*Bouteloua curtipendula*  
*Bouteloua gracilis*  
*Bouteloua rigidiseta*  
*Bromus commutatus*  
*Bromus inermis*  
*Bromus purgans*  
*Calamovilfa gigantea*  
*Strophostyles pauciflora*

BOTRYOSPHAERIA RIBIS  
*Cladrastis lutea*  
*Malus sylvestris*  
*Rosa* spp.

BOTRYOSPHAERIA RIBIS  
 var. CHROMOGENA  
*Hibiscus syriacus*

BOTRYTIS ALLII  
*Allium cepa*

## ASPERGILLUS NIGER

*Allium cepa*  
*Gossypium hirsutum*  
*Sorghum vulgare*  
*Zea mays*

BOTRYTIS CINEREA  
*Amaryllis* spp.  
*Pisum sativum*  
*Rosa* spp.

## ASPERGILLUS SPP.

*Cucumis melo*  
*Gladiolus* spp.  
*Gossypium hirsutum*  
*Hyacinthus* spp.  
*Ipomoea batatas*  
*Narcissus* spp.  
*Tulipa* spp.

BOTRYTIS CONVOLUTA  
*Iris versicolor*

BOTRYTIS PAEONIAE  
*Paeonia* spp.

BOTRYTIS TULIPAE  
*Tulipa* spp.

BACTERIUM CANNAE  
*Canna indica*

BACTERIUM PUNCTULANS  
*Lycopersicon esculentum*

BACTERIUM SOLANACE-  
 ARUM

*Capsicum frutescens*  
*Dahlia* spp.  
*Lycopersicon esculentum*

BOTRYTIS SPP.  
*Antirrhinum majus*  
*Arachis hypogaea*  
*Fragaria* spp.  
*Hyacinthus* spp.  
*Lilium regale*  
*Narcissus* spp.  
*Platycodon grandiflorum*

BRACHYSPORIUM SP.  
*Gossypium hirsutum*

## BREMIA LACTUCAE

*Krigia* sp.*Lactuca* sp.

## BUBAKIA CROTONIS

*Croton capitatus**Croton monanthogynus**Croton texensis*CEPHALOBOLUS ELONG-  
ATUS*Medicago sativa*

## CEPHALOBOLUS SP.

*Solanum tuberosum*CEPHALOTHECIUM  
ROSEUM*Malus sylvestris**Prunus persica*

## CEPHALOTHECIUM SPP.

*Sorghum vulgare**Ulmus* spp.

## CERCOSPORA ACALYPHAE

*Acalypha gracilens**Acalypha ostryaefolia*

## CERCOSPORA ADUSTA

*Ligustrum amurense**Ligustrum ibolium**Ligustrum ovalifolium*CERCOSPORA AGROS-  
TIDIS*Agrostis perennans*

## CERCOSPORA ALTHAEINA

*Althaea rosea*

## CERCOSPORA ANGULATA

*Philadelphus coronarius**Philadelphus grandiflorus**Philadelphus lemoinei*CERCOSPORA ANTHEL-  
MINTICA*Chenopodium hybridum*

## CERCOSPORA APII

*Apium graveolens* var. *dulce*CERCOSPORA ARACHIDI-  
COLA*Arachis hypogaea*CERCOSPORA ARCTI-  
AMBROSIAE*Ambrosia trifida*

## CERCOSPORA ASPARAGI

*Asparagus officinalis*

## CERCOSPORA ASTRAGALI

*Astragalus cicer*

## CERCOSPORA AVICULARIS

*Polygonum pensylvanicum*

## CERCOSPORA BETICOLA

*Beta vulgaris**Beta vulgaris* var. *cicla*

## CERCOSPORA BIFORMIS

*Passiflora incarnata*

## CERCOSPORA CALLICARPAE

*Callicarpa americana*

## CERCOSPORA CAPSICI

*Capsicum frutescens*

## CERCOSPORA CATALPAE

*Catalpa bignonioides*CERCOSPORA CATENOS-  
PORA*Sambucus* spp.

## CERCOSPORA CELOSIAE

*Celosia argentea*

## CERCOSPORA CERCIDIS

*Cercis canadensis*

## CERCOSPORA CHIONANTHI

*Chionanthus virginica*CERCOSPORA CHRYSAN-  
THEMI*Chrysanthemum maximum*

## CERCOSPORA CLAVATA

*Asclepias speciosa*CERCOSPORA COCCULI-  
COLA*Cocculus carolinus*

- CERCOSPORA CONCEN-  
TRICA  
*Yucca filamentosa*
- CERCOSPORA CONDENSATA  
*Gleditsia triacanthos*
- CERCOSPORA CONSOCIATA  
*Ruellia strepens*
- CERCOSPORA CONSPICUA  
*Cleome lutea*  
*Cleome serrulata*
- CERCOSPORA COREOP-  
SIDIS  
*Coreopsis grandiflora*
- CERCOSPORA CORYLINA  
*Corylus americana*  
*Corylus cornuta*
- CERCOSPORA CRUENTA  
*Phaseolus lunatus*  
*Vigna sinensis*
- CERCOSPORA CUCURBITAE  
*Cucurbita foetidissima*
- CERCOSPORA DATURICOLA  
*Datura stramonium*
- CERCOSPORA DAVISII  
*Melilotus alba*  
*Melilotus officinalis*
- CERCOSPORA DESMODII  
*Desmodium* sp.
- CERCOSPORA DESMODII-  
COLA  
*Desmodium canescens*
- CERCOSPORA DEUTZIAE  
*Deutzia lemoinei*
- CERCOSPORA DIANTHERAE  
*Dianthera americana*  
*Dianthera ovata*
- CERCOSPORA DIODIAE  
*Diodia teres*
- CERCOSPORA DIOSPYRI  
*Diospyros virginiana*
- CERCOSPORA DUBIA  
*Chenopodium album*  
*Chenopodium hybridum*
- CERCOSPORA ELAEAGNI  
*Elaeagnus angustifolia*  
*Elaeagnus commutata*
- CERCOSPORA FERRUGINEA  
*Lobelia puberula*
- CERCOSPORA FLAGEL-  
LARIS  
*Phytolacca americana*
- CERCOSPORA FULIGINOSA  
*Diospyros kaki*
- CERCOSPORA FUSCA  
*Carya illinoensis*
- CERCOSPORA GAURAE  
*Gaura biennis*  
*Gaura sinuata*
- CERCOSPORA GLANDULOSA  
*Ailanthus altissima*
- CERCOSPORA GOMPHRE-  
NAE  
*Gomphrena globosa*
- CERCOSPORA GONOLOBI  
*Gonolobus laevis*
- CERCOSPORA GOSSYPINA  
*Gossypium hirsutum*  
*Gossypium sturtii*
- CERCOSPORA GRANU-  
LIFORMIS  
*Viola papilionacea*
- CERCOSPORA GYMNO-  
CLADII  
*Gymnocladus dioica*
- CERCOSPORA HALESLAE  
*Halesia monticola*

## CERCOSPORA HALSTEDII

*Carya illinoensis*

## CERCOSPORA HAMAMELI-

DIS

*Hamamelis virginiana*

## CERCOSPORA HELIO-

TROPII

*Heliotropium curassavicum*

## CERCOSPORA HETERO-

MELES

*Photinia* sp.

## CERCOSPORA HIBISCI

*Hibiscus rosa-sinensis**Hibiscus syriacus*

## CERCOSPORA HYALINA

*Rosa* spp.CERCOSPORA HYDRAN-  
GEAE*Hydrangea arborescens**Hydrangea macrophylla*

## CERCOSPORA HYDROPI-

PERIS

*Polygonum pensylvanicum*

## CERCOSPORA JUSSIAEAE

*Jussiaea diffusa*

## CERCOSPORA KOLK-

WITZIAE

*Kolkwitzia amabilis*

## CERCOSPORA LABURNI

*Laburnum anagyroides*

## CERCOSPORA LATHYRINA

*Lathyrus latifolius*

## CERCOSPORA LIPPICAE

*Lippia lanceolata*

## CERCOSPORA LUDWIGIAE

*Ludwigia alternifolia*

## CERCOSPORA LYCII

*Lycium pallidum*CERPOSPORA MACROMA-  
CULANS*Syringa vulgaris*CERCOSPORA MALAYEN-  
SIS*Hibiscus esculentus**Hibiscus rosa-sinensis*

## CERCOSPORA MARRUBII

*Marrubium vulgare*

## CERCOSPORA MENISPERMI

*Cocculus carolinus*

## CERCOSPORA MICROSORA

*Tilia americana*

## CERCOSPORA MORICOLA

*Morus alba*

## CERCOSPORA NANDINAE

*Nandina domestica*

## CERCOSPORA NASTURTI

*Rorippa nasturtium-  
aquaticum*

## CERCOSPORA OCULATA

*Vernonia baldwini*CERCOSPORA OMPHA-  
KODES*Phlox pilosa* subsp.  
*typica*

## CERCOSPORA PACHYPUS

*Helianthus annuus*

## CERCOSPORA PAEONIAE

*Paeonia* spp.

## CERCOSPORA PASPALI

*Paspalum stramineum*CERCOSPORA PENTSTE-  
MONIS*Penstemon cobaea**Penstemon pallidus*

## CERCOSPORA PERNICIOSA

*Cephalanthus occidentalis*

- CERCOSPORA PERSONATA  
*Arachis hypogaea*
- CERCOSPORA PETUNIAE  
*Petunia hybrida*
- CERCOSPORA PHYSALIDIS  
*Physalis mollis*
- CERCOSPORA PHYSOCARPI  
*Physocarpus bracteatus*  
*Physocarpus opulifolius*  
*Spiraea japonica*
- CERCOSPORA PSORALEAE  
*Psoralea digitata*
- CERCOSPORA PTELEAE  
*Ptelea trifoliata*
- CERCOSPORA PULCHER-  
RIMAE  
*Euphorbia marginata*
- CERCOSPORA RHOINA  
*Rhus aromatica*  
*Rhus glabra*  
*Rhus trilobata*
- CERCOSPORA ROSICOLA  
*Rosa* spp.
- CERCOSPORA SABBATIAE  
*Sabatia campestris*
- CERCOSPORA SALVIICOLA  
*Salvia azurea*
- CERCOSPORA SEMINALIS  
*Buchloe dactyloides*
- CERCOSPORA SEQUOIAE  
var. JUNIPERI  
*Juniperus* spp.
- CERCOSPORA SERIATA  
*Sporobolus clandestinus*
- CERCOSPORA SETARII-  
COLA  
*Setaria lutescens*
- CERCOSPORA SMILACINA  
*Smilax bona-nor*  
*Smilax pseudo-china*
- CERCOSPORA SOJINA  
*Soja max*
- CERCOSPORA SORGHI  
*Sorghum halepense*
- CERCOSPORA SQUALIDULA  
*Clematis pitcheri*  
*Clematis virginiana*
- CERCOSPORA STAPHYLEAE  
*Staphylea trifolia*
- CERCOSPORA TEUCRII  
*Teucrium canadense*
- CERCOSPORA TRAGOPO-  
GONIS  
*Tragopogon porrifolius*
- CERCOSPORA TUBER-  
CULELLA  
*Convolvulus arvensis*
- CERCOSPORA VARIA  
*Viburnum opulus*
- CERCOSPORA VERNONIAE  
*Vernonia missurica*
- CERCOSPORA VIBURNI-  
COLA  
*Viburnum opulus*  
*Viburnum tomentosum*
- CERCOSPORA VIOLAE  
*Viola missouriensis*  
*Viola papilionacea*
- CERCOSPORA VITICIS  
*Vitex agnuscastus*
- CERCOSPORA ZEBRINA  
*Medicago sativa*  
*Trifolium hybridum*

## CERCOSPORA SPP.

*Acer* spp.  
*Bromus purgans*  
*Cunninghamia lanceolata*  
*Dahlia* spp.  
*Festuca elatior*  
*Lotus americanus*  
*Monarda clinopodioides*  
*Phalaris tuberosa* var.  
*stenoptera*  
*Phellodendron amurense*  
*Prunus caroliniana*  
*Rhododendron* spp.  
*Spinacia oleracea*  
*Stenosiphon linifolius*

CERCOSPORELLA ALBO-  
MACULANS

*Brassica rapa*

## CERCOSPORELLA CANA

*Erigeron strigosus*

CERCOSPORELLA CARYI-  
GENA

*Carya illinoensis*

## CERCOSPORELLA CELTIDIS

*Celtis occidentalis*

## CERCOSPORELLA MORI

*Morus alba*

## CERCOSPORELLA PERSICAE

*Prunus persica*

## CERCOSPORIDIUM

EUPHORBIAE

*Euphorbia maculata*

## CERCOSPORIDIUM SP.

*Astragalus mexicanus*

CEREBELLA ANDROPO-  
GONIS

*Andropogon furcatus*  
*Andropogon ischaemum*  
*Andropogon saccharoides*  
*Andropogon scoparius*  
*Andropogon ternarius*  
*Sorghastrum nutans*

## CHAETOMELLA ATRA

*Panicum texanum*  
*Sporobolus asper*  
*Sporobolus vaginiflorus*

CHALAROPSIS THIELA-  
VOIDES

*Ulmus pumila*

CHOENEPHORA CUCURBI-  
TARUM

*Cucurbita maxima*  
*Cucurbita moschata*

## CICINNOBOLUS CESATII

*Aplopappus ciliatus*  
*Zinnia elegans*

## CINTRACTIA AXICOLA

*Fimbristylis autumnalis*  
*Fimbristylis vahlii*

CLADOSPORIUM CARPO-  
PHILUM

*Prunus persica*  
*Prunus* spp. (Plum)

CLADOSPORIUM CUCUM-  
ERINUM

*Cucumis sativus*

CLADOSPORIUM CYCLA-  
MINIS

*Cyclamen* spp.

## CLADOSPORIUM EFFUSUM

*Carya illinoensis*

CLADOSPORIUM FASCI-  
CULATUM

*Magnolia acuminata*  
*Typha latifolia*

## CLADOSPORIUM FULVUM

*Lycopersicon esculentum*

CLADOSPORIUM HER-  
BARUM

*Syringa vulgaris*

## CLADOSPORIUM PAEONIAE

*Paeonia* spp.

## CLADOSPORIUM SPP.

*Clematis virginiana*  
*Triticum aestivum*

## CLAVICEPS PURPUREA

*Agropyron repens*  
*Agropyron smithii*  
*Agrostis scabra*  
*Andropogon furcatus*  
*Andropogon hallii*  
*Andropogon scoparius*  
*Bouteloua gracilis*  
*Elymus canadensis*  
*Elymus virginicus*  
*Hordeum vulgare*  
*Lolium multiflorum*  
*Lolium perenne*  
*Secale cereale*  
*Triticum aestivum*

## CLAVICEPS SP.

*Sorghastrum nutans*

## CLITOCYBE ILLUDENS

*Robinia pseudoacacia*

## CLITOCYBE MONADELPHA

*Malus sylvestris*  
*Prunus persica*  
*Vitis* spp.

## CLITOCYBE PARASITICA

*Carya alba*  
*Prunus* spp. (Cherry)

## CLITOCYBE TABESCENS

*Quercus macrocarpa*  
*Quercus marilandica*  
*Vitis* spp.

## CLITOCYBE SP.

*Prunus* spp. (Plum)

## COCCOMYCES HIEMALIS

*Prunus armeniaca*  
*Prunus cerasus*  
*Prunus* spp. (Cherry)  
*Prunus* spp. (Plum)

## COCCOMYCES PRUNOPHORAE

*Prunus* spp. (Plum)

## COLEOSPORIUM ELEPHANTOPODIS

*Elephantopus carolinianus*

## COLEOSPORIUM HELIANTHI

*Helianthus rigidus*

## COLEOSPORIUM IPOMOEAE

*Ipomoea hederacea*  
*Ipomoea pandurata*  
*Ipomoea purpurea*  
*Ipomoea* sp.  
*Pinus echinata*

## COLEOSPORIUM SOLIDAGINIS

*Solidago gigantea* var.  
*leiophylla*  
*Solidago* spp.

## COLEOSPORIUM VERNONIAE

*Vernonia baldwini*  
*Vernonia crinita*  
*Vernonia fasciculata*

## COLLETOTRICHUM

ATRAMENTARIUM  
*Solanum melongena*  
*Solanum tuberosum*

## COLLETOTRICHUM

ERUMPENS  
*Rumex crispus*

## COLLETOTRICHUM GLYCINES

*Soja max*

## COLLETOTRICHUM GRAMINICOLUM

*Agropyron elongatum*  
*Agropyron intermedium*  
*Agropyron smithii*  
*Andropogon scoparius*

- Aristida dichotoma*  
*Avena sativa*  
*Bromus carinatus*  
*Chloris verticillata*  
*Cynodon dactylon*  
*Dactylis glomerata*  
*Diarrhena americana*  
*Digitaria filiformis*  
*Echinochloa crusgalli*  
*Eleusine indica*  
*Elymus junceus*  
*Elymus virginicus*  
*Eragrostis trichodes*  
*Festuca elatior*  
*Festuca versuta*  
*Hordeum bulbosum*  
*Hordeum vulgare*  
*Melica nitens*  
*Muhlenbergia capillaris*  
*Muhlenbergia mexicana*  
*Muhlenbergia racemosa*  
*Panicum boscii* var. *molle*  
*Phalaris tuberosa* var. *stenoptera*  
*Phleum pratense*  
*Poa ampla*  
*Poa canbyi*  
*Secale cereale*  
*Sorghum halepense*  
*Sorghum vulgare*  
*Sorghum vulgare* var. *technicum*  
*Sporobolus asper*  
*Sporobolus heterolepis*  
*Triodia albescens*  
*Triodia elongata*  
*Tripsacum dactyloides*  
*Triticum aestivum*
- COLLETOTRICHUM  
LILLACEARUM  
*Amaryllis* spp.  
*Hemerocallis* sp.  
*Iris* spp.  
*Kniphofia elegans*  
*Lilium monadelphum*
- COLLETOTRICHUM  
LINDEMUTHIANUM  
*Phaseolus vulgaris*
- COLLETOTRICHUM  
OMNIVORUM  
*Aspidistra elatior*
- COLLETOTRICHUM  
PHOMOIDES  
*Lycopersicon esculentum*
- COLLETOTRICHUM  
SMILACIS  
*Smilax* sp.
- COLLETOTRICHUM  
TRICHELLUM  
*Hedera helix*
- COLLETOTRICHUM  
TRIFOLII  
*Medicago hispida*  
*Medicago sativa*  
*Melilotus alba*  
*Trifolium* spp.
- COLLETOTRICHUM  
TRUNCATUM  
*Phaseolus lunatus*
- COLLETOTRICHUM  
VICIAE  
*Vicia villosa*
- COLLETOTRICHUM  
VIOLAE-ROTUNDIFOLIAE  
*Viola missouriensis*
- COLLETOTRICHUM  
VIOLAE-TRICOLORIS  
*Viola papilionacea*
- COLLETOTRICHUM  
HIGGINSIANUM  
*Brassica rapa*
- COLLETOTRICHUM  
LAGENARIUM  
*Citrullus vulgaris*  
*Cucumis melo*  
*Cucumis sativus*

## COLLETOTRICHUM SPP.

*Carex grvida*  
*Nothoscordum bivalve*  
*Phytolacca americana*

## CONIOSPORIUM

RHIZOPHILUM  
*Cynodon dactylon*

## CONIOTHYRIUM

FUCKELII  
*Rosa* spp.  
*Rubus* sp. (Raspberry)

## CONIOTHYRIUM ULMI

*Ulmus americana*  
*Ulmus crassifolia*

## CONIOTHYRIUM SPP.

*Cicuta maculata*  
*Dodecatheon meadia*  
*Jasminum floridum*  
*Jasminum humile*  
*Jasminum nudiflorum*  
*Ligustrum vulgare*  
*Mahonia aquifolium*  
*Rubus* sp. (Boysenberry)  
*Rubus* sp. (Youngberry)

## CORTICIUM SP.

*Sophora affinis*

## CORYNEBACTERIUM

FASCIANS  
*Lathyrus odoratus*

## CORYNEBACTERIUM

INSIDIOSUM  
*Medicago sativa*

## CORYNEBACTERIUM

MICHIGANENSE  
*Lycopersicon esculentum*

## CORYNEBACTERIUM

SEPEDONICUM  
*Solanum tuberosum*

## CORYNEUM BEIJERINCKII

*Prunus persica*

## CORYNEUM KUNZEI

*Quercus* spp.

## CORYNEUM MICROSTICTUM

*Rosa* spp.

## CORYNEUM THUJINUM

*Thuja occidentalis*

## CORYNEUM SPP.

*Salix* spp.  
*Ulmus* spp.

## CRONARTIUM QUERCUEM

*Quercus* spp.

CRYPTOSPORELLA UM-  
BRINA

*Rosa* spp.

CURVULARIA GENICU-  
LATA

*Eremochloa ophiuroides*

## CURVULARIA SPICIFERA

*Triticum aestivum*

## CUSCUTA ARVENSIS

*Ambrosia psilostachya*  
*Aplopappus ciliatus*  
*Artemisia mexicana*  
*Bacopa* sp.  
*Comandra umbellata*  
*Coreopsis verticillata*  
*Gutierrezia dracunculoides*  
*Lepidium virginicum*  
*Lespedeza* spp.  
*Oenothera* spp.  
*Psoralea digitata*  
*Rudbeckia amplexicaulis*  
*Solidago graminifolia*  
*Verbena simplex*

## CUSCUTA COMPACTA

*Alnus rugosa*  
*Alnus* sp.  
*Solidago* spp.

## CUSCUTA CORYLI

*Ambrosia psilostachya*  
*Tragia nepetaefolia*

## CUSCUTA CUSPIDATA

*Ambrosia psilostachya*  
*Ambrosia trifida*  
*Aplopappus ciliatus*  
*Aplopappus divaricatus*  
*Coreopsis tinctoria*  
*Coreopsis verticillata*  
*Erigeron canadensis*  
*Galium aparine*  
*Heliotropium* sp.  
*Solidago* spp.  
*Tribulus terrestris*  
*Vernonia baldwini*

## CUSCUTA GLOMERATA

*Liatris punctata*

## CUSCUTA GRONOVII

*Ampelopsis arborea*

## CUSCUTA INDECORA

*Actinea linearifolia*  
*Ambrosia psilostachya*  
*Aster ericoides*  
*Coreopsis verticillata*  
*Iva ciliata*  
*Medicago sativa*  
*Vicia americana*

## CUSCUTA OBTUSIFLORA

*Ambrosia* sp.

## CUSCUTA SPP.

*Ambrosia trifida*  
*Gutierrezia sarothrae*  
*Helianthus* spp.  
*Lagerstroemia indica*  
*Medicago sativa*  
*Petunia hybrida*  
*Stillingia sylvatica*

## CYANOSPORA ALBICEDRAE

*Juniperus* spp.

## CYLINDROSPORIUM

## ANGUSTIFOLIUM

*Yucca glauca*

## CYLINDROSPORIUM

## APOCYNI

*Apocynum androsaemi-*  
*folium*  
*Apocynum cannabinum*

## CYLINDROSPORIUM

## DEFOLIATUM

*Celtis occidentalis*  
*Celtis reticulata*

## CYLINDROSPORIUM

## FRAXINI

*Fraxinus velutina*  
*Fraxinus velutina* var.  
*toumeyi*

## CYLINDROSPORIUM

## GRISEUM

*Sapindus drummondii*

## CYLINDROSPORIUM

## GUTTATUM

*Hypoxis hirsuta*

## CYLINDROSPORIUM

## JUGLANDIS

*Juglans nigra*  
*Juglans regia*

## CYLINDROSPORIUM MORI

*Morus rubra*

## CYLINDROSPORIUM

## PASSALOROIDES

*Amorpha fruticosa*

## CYLINDROSPORIUM RUBI

*Rubus occidentalis*  
*Rubus* sp. (Raspberry)

## CYLINDROSPORIUM

## SALICINUM

*Salix* spp.

## CYLINDROSPORIUM

## SCROPHULARIAE

*Scrophularia marilandica*

## CYLINDROSPORIUM

## TRIOSETI

*Trioisetum perfoliatum*

## CYLINDROSPORIUM

## ULMICOLA

*Morus alba**Morus rubra*

## CYLINDROSPORIUM SP.

*Cornus stolonifera**Perovskia atriplicifolia*

## CYTOSPORA ANNULARIS

*Fraxinus nigra*CYTOSPORA CHRYSOS-  
PERMA*Acer* spp.*Populus deltoides**Populus* spp.*Quercus palustris**Salix* spp.

## CYTOSPORA ELAEAGNI

*Elaeagnus angustifolia*

## CYTOSPORA LEUCOSTOMA

*Malus sylvestris**Prunus persica*

## CYTOSPORA PLATANI

*Platanus occidentalis*

## CYTOSPORA SPP.

*Juniperus virginiana**Poinciana gilliesi**Thuja occidentalis*

## CYTOSPORELLA SPP.

*Ligustrum vulgare*

## CYTOSPORINA SPP.

*Hibiscus syriacus**Koelreuteria paniculata**Poinciana gilliesi*

## DAEDALEA AMBIGUA

*Ulmus* spp.

## DAEDALEA JUNIPERINA

*Juniperus virginiana*

## DAEDALEA UNICOLOR

*Quercus* spp.

## DALDINIA CONCENTRICA

*Quercus* spp.

## DARLUCA FILUM

*Lespedeza violacea**Panicum virgatum**Populus deltoides**Secale cereale*

## DEMATIUM PULLULANS

*Hibiscus syriacus*DENDROPHOMA OBSCUR-  
ANS*Fragaria* spp.

## DIAPORTHE BATATATIS

*Ipomoea batatas*DIAPORTHE PHASEO-  
LORUM var. SOJAE*Soja max*

## DIBOTRYON MORBOSUM

*Prunus* spp. (Cherry)*Prunus* spp. (Plum)

## DIDYMELLA EUMORPHA

*Arundinaria gigantea*DIDYMELLA SPHAEREL-  
LOIDES*Yucca glauca*

## DIDYMELLA SP.

*Callicarpa dichotoma*

## DIDYMELLINA IRIDIS

*Iris* spp.

## DIPLOCARPON EARLIANA

*Fragaria* spp.

## DIPLOCARPON ROSAE

*Rosa* spp.

## DIPLODIA CARYOGENA

*Carya cordiformis**Zea mays*

## DIPLODIA FRUMENTI

*Arachis hypogaea*

## DIPLODIA NATALENSIS

*Citrus trifoliata*

## DIPLODIA TUBERICOLA

*Ipomoea batatas*

## DIPLODIA ZEAE

*Zea mays*

## DIPLODIA SPP.

*Citrullus vulgaris**Gossypium hirsutum**Stapelia* sp.

## DISAETA SP.

*Ipomoea batatas*

## DISCOSIA ARTOCREAS

*Cercis canadensis**Paeonia* spp.

## DOTHICHIZA POPOLEA

*Populus nigra* var.*italica**Populus* spp.DOTHICHLOE ATRAMEN-  
TOSA*Triodia flava*

## DOTHIORELLA RIBIS

*Salix discolor*

## DOTHIORELLA SMILACINA

*Smilax bona-nox**Smilax glauca**Smilax rotundifolia*

## DOTHIORELLA ULMI

*Ulmus americana**Ulmus fulva*

## DOTHIORELLA SP.

*Kolwitzia amabilis*

## DOTHISTROMA PINI

*Pinus echinata**Pinus nigra* var. *austriaca*

## ELLISIELLA CAUDATA

*Agropyron trachycaulum**Andropogon furcatus**Andropogon hallii**Andropogon scoparius**Andropogon ternarius**Aristida curtissii**Eragostis secundiflora**Eragostis spectabilis**Koeleria cristata**Manisuris cylindrica**Setaria lutescens**Sorghastrum nutans*

## ELSINOE AMPELINA

*Vitis* spp.

## ELSINOE RANDII

*Carya illinoensis*

## ELSINOE VENETA

*Rubus* spp. (Blackberry)*Rubus* sp. (Boysenberry)*Rubus* sp. (Dewberry)*Rubus* sp. (Raspberry)

## EMPUSA APHIDIS on

ILLINOIA

*Medicago sativa*

## ENDOCONIDIOPHORA

FIMBRIATA

*Ipomoea batatas*

## ENDODOTHELLA TRACYI

*Distichilis spicata*ENDOPHYLLUM TUBER-  
CULATUM*Althaea rosea**Callirhoe involucrata*

## ENTOMOSPORIUM

MACULATUM

*Cydonia oblonga**Pyrus communis*

## ENTYLOMA AUSTRALE

*Physalis angulata**Physalis mollis**Physalis* sp.

ENTYLOMA NYMPHAEAE

*Nymphaea odorata*

ERWINIA AMYLOVORA

*Cydonia oblonga*

*Malus sylvestris*

*Prunus* spp. (Plum)

*Pyracantha* spp.

*Pyrus communis*

ERWINIA CACTIDA

*Opuntia rafinesquii*

ERWINIA CAROTOVORA

*Allium cepa*

*A Armoracia rusticana*

*Asparagus officinalis*

*Brassica juncea*

*Brassica oleracea* var.  
*capitata*

*Brassica rapa*

*Chrysanthemum* spp.

*Cucumis melo*

*Daucus carota*

*Ipomoea batatas*

*Iris* spp.

*Rheum rhaponticum*

*Solanum tuberosum*

ERWINIA TRACHEIPHILA

*Citrullus vulgaris*

*Cucumis melo*

*Cucumis sativus*

ERYSIPHE CICHORACE-  
ARUM

*Ambrosia trifida*

*Aplopappus ciliatus*

*Aster ericoides*

*Aster salicifolius*

*Cucumis sativus*

*Cucurbita foetidissima*

*Cucurbita maxima*

*Cucurbita pepo*

*Gerbera jamesoni*

*Hedera helix*

*Helianthus annuus*

*Lamium amplexicaule*

*Liatris scariosa*

*Plantago major*

*Rudbeckia amplexicaulis*

*Sonchus asper*

*Tragopogon porrifolius*

*Verbena urticifolia*

*Zinnia elegans*

ERYSIPHE GRAMINIS

*Andropogon* sp.

*Bromus catharticus*

*Buchloe dactyloides*

*Hordeum pusillum*

*Hordeum vulgare*

*Poa compressa*

*Polypogon monspeliensis*

*Secale cereale*

*Triticum aestivum*

ERYSIPHE LAGERSTROE-  
MIAE

*Lagerstroemia indica*

ERYSIPHE POLYGONI

*Brassica rapa*

*Delphinium* spp.

*Lathyrus odoratus*

*Pisum sativum*

*Pisum sativum* var.

*arvense*

*Polygonum aviculare*

*Strophostyles pauciflora*

*Trifolium* spp.

*Vigna sinensis*

EUTYPELLA VITIS

*Vitis* spp.

EXOBASIDIUM VACCINII

*Rhododendron nudiflorum*

FABRAEA MACULATA

*Cydonia oblonga*

*Pyrus communis*

FOMES EVERHARTII

*Quercus* spp.

FOMES FRAXINOPHILUS

*Fraxinus americana*

- FOMES IGNIARIUS  
*Quercus* spp.
- FOMES OHIENSIS  
*Quercus* spp.
- FOMES RIMOSUS  
*Robinia pseudoacacia*
- FOMES SPP.  
*Acer* spp.  
*Fraxinus* spp.  
*Pinus* spp.
- FUMAGO VAGANS  
*Quercus* spp.
- FUSARIUM BATATATIS  
*Ipomoea batatas*
- FUSARIUM CHLAMYDOS-  
PORUM  
*Gossypium hirsutum*
- FUSARIUM EQUISETI var.  
BULLATUM  
*Gossypium hirsutum*
- FUSARIUM HYPEROXY-  
SPORUM  
*Ipomoea batatas*
- FUSARIUM LATERITIMUM  
*Hibiscus syriacus*
- FUSARIUM LINI  
*Linum usitatissimum*
- FUSARIUM MALLI  
*Allium cepa*
- FUSARIUM MARTII var.  
PHASEOLI  
*Phaseolus vulgaris*
- FUSARIUM MONILIFORME  
*Gossypium hirsutum*  
*Sorghum vulgare* var.  
*technicum*  
*Zea mays*
- FUSARIUM OXYSPORUM  
*Ipomoea batatas*  
*Solanum tuberosum*
- FUSARIUM OXYSPORUM f.  
CONGLUTINANS  
*Brassica oleracea* var.  
*capitata*  
*Chrysanthemum* spp.
- FUSARIUM OXYSPORUM f.  
GLADIOLI  
*Gladiolus* spp.
- FUSARIUM OXYSPORUM f.  
LYCOPERSICI  
*Lycopersicon esculentum*
- FUSARIUM OXYSPORUM f.  
NIVEUM  
*Citrullus vulgaris*  
*Cucumis melo*
- FUSARIUM OXYSPORUM f.  
TRACHEIPHILUM  
*Soja max*  
*Vigna sinensis*
- FUSARIUM OXYSPORUM f.  
VASINFECTUM  
*Gossypium hirsutum*
- FUSARIUM RADICICOLA  
*Ipomoea batatas*
- FUSARIUM SCIRPI  
*Gossypium hirsutum*
- FUSARIUM SCIRPI var.  
ACUMINATUNA  
*Gossypium hirsutum*
- FUSARIUM SEMITECTUM  
*Gossypium hirsutum*
- FUSARIUM SOLANI  
*Gossypium hirsutum*
- FUSARIUM SOLANI f.  
EUMARTII  
*Solanum tuberosum*

FUSARIUM SOLANI var.

MARTII

*Gossypium hirsutum*

*Secale cereale*

*Triticum aestivum*

*Zea mays*

FUSARIUM SPP.

*Agrostis palustris*

*Antirrhinum majus*

*Arachis hypogaea*

*Capsicum frutescens*

*Celosia* sp.

*Chrysanthemum* spp.

*Citrullus vulgaris*

*Crotalaria* spp.

*Cucumis melo*

*Cucumis sativus*

*Dahlia* spp.

*Delphinium* spp.

*Dianthus caryophyllus*

*Euonymus* spp.

*Ligustrum vulgare*

*Lycopersicon esculentum*

*Medicago sativa*

*Melilotus alba*

*Phaseolus vulgaris*

*Rheum rhaponticum*

*Rosa* spp.

*Sorghum vulgare*

*Sorghum vulgare* var.

*sudanense*

*Triticum aestivum*

*Tulipa* spp.

*Zea mays*

GLOEODES POMIGENA

*Malus sylvestris*

*Pyrus communis*

GLOEOSPORIUM AMERICANUM

*Vicia villosa*

GLOEOSPORIUM APOCRIPTUM

*Acer* spp.

GLOEOSPORIUM BETULARUM

*Betula nigra*

*Betula papyrifera*

GLOEOSPORIUM CINGULATUM

*Ficus elastica*

*Smilax* spp.

GLOEOSPORIUM INCONSPICUUM

*Ulmus alata*

*Ulmus americana*

*Ulmus pumila*

*Ulmus* spp.

GLOEOSPORIUM LAPORTEAE

*Laportea canadensis*

GLOEOSPORIUM MEDICAGINIS

*Medicago sativa*

GLOEOSPORIUM MINUTUM

*Anthurium andraeanum*

*Anthurium andraeanum*

var. *giganteum*

*Dieffenbachia picta*

FUSICLADIUM DENDRITICUM

*Malus sylvestris*

FUSICLADIUM PIRINUM

*Chaenomeles lagenaria*

FUSICOCCUM SP.

*Pyracantha* spp.

GANODERMA SP.

*Colutea arborescens*

GIBBERELLA ZEAE

*Avena sativa*

*Hordeum vulgare*

GLOEOSPORIUM POLY-  
MORPHUM  
*Dracaena fragans*

GLOEOSPORIUM ROSAE  
*Rosa* spp.

GLOEOSPORIUM ULMEUM  
*Ulmus americana*

GLOEOSPORIUM ULMI-  
COLUM  
*Ulmus fulva*  
*Ulmus pumila*

GLOEOSPORIUM SPP.  
*Achillea millefolium*  
*Artistida purpurea*  
*Juglans nigra*  
*Juniperus* spp.  
*Quercus nigra*  
*Rubus* sp. (Boysenberry)  
*Rubus* sp. (Youngberry)  
*Sabatia campestris*

GLOMERELLA CINGULATA  
*Capsicum frutescens*  
*Carya illinoensis*  
*Citrus paradisi*  
*Ligustrum vulgare*  
*Nandina domestica*

GLOMERELLA GLYCINES  
*Soja max*

GLOMERELLA GOSSYPHII  
*Gossypium hirsutum*

GLOMERELLA SP.  
*Elymus canadensis*

GNOMONIA CARYA  
*Carya glabra*

GNOMONIA LEPTOSTYLA  
*Juglans nigra*

GNOMONIA ULMEA  
*Ulmus americana*  
*Ulmus* spp.

GNOMONIA VENETA  
*Platanus occidentalis*  
*Quercus* spp.

GUIGNARDIA AESCULI  
*Aesculus glabra*  
*Aesculus hippocastanum*  
*Aesculus octandra*

GUIGNARDIA BIDWELLII  
*Parthenocissus tricuspidata*  
*Vitis berlandieri*  
*Vitis munsoniana*  
*Vitis* spp.

GUIDNARDIA BOLTONIAE  
*Boltonia diffusa*

GYMNOCONIA PECKIANA  
*Rubus* spp. (Blackberry)  
*Rubus* sp. (Raspberry)

GYMNOSPORANGIUM  
BETHELI  
*Juniperus scopulorum*

GYMNOSPORANGIUM  
CLAVIPES  
*Cydonia oblonga*  
*Juniperus virginiana*

GYMNOSPORANGIUM  
EFFUSUM  
*Juniperus* spp.

GYMNOSPORANGIUM  
EXIGUUM  
*Juniperus mexicana*  
*Juniperus scopulorum*

GYMNOSPORANGIUM  
FLORIFORME  
*Juniperus virginiana*  
*Juniperus virginiana* var.  
*globosa*

GYMNOSPORANGIUM  
GLOBOSUM  
*Crataegus viridis*  
*Crataegus* spp.  
*Juniperus virginiana*  
*Malus baccata*

## GYMNOSPORANGIUM

## JUNIPERI-VIRGINIANAE

*Juniperus chinensis* var.  
*pfitzeriana*

*Juniperus virginiana*

*Juniperus virginiana* var.  
*canaerti*

*Juniperus virginiana* var.  
*glauca*

*Juniperus virginiana* var.  
*pyramidalis*

*Malus ioensis*

*Malus sylvestris*

## GYMNOSPORANGIUM

## NIDUS-AVIS

*Juniperus virginiana*

## GYMNOSPORANGIUM SPP.

*Crataegus* spp.

*Juniperus monosperma*

*Juniperus virginiana*

*Juniperus* spp.

## HELICOBASIDIUM PUR-

## PUREUM

*Medicago sativa*

*Solanum tuberosum*

## HELMINTHOSPORIUM

## AVENAE

*Avena sativa*

## HELMINTHOSPORIUM

## CYNODONTIS

*Cynodon dactylon*

## HELMINTHOSPORIUM

## GIGANTEUM

*Cynodon dactylon*

## HELMINTHOSPORIUM

## GRAMINEUM

*Hordeum vulgare*

## HELMINTHOSPORIUM

## LEERSII

*Bromus inermis*

## HELMINTHOSPORIUM

## SATIVUM

*Avena sativa*

*Hordeum vulgare*

*Triticum aestivum*

## HELMINTHOSPORIUM

## TERES

*Hordeum vulgare*

## HELMINTHOSPORIUM

## TURCICUM

*Buchloe dactyloides*

*Setaria italica*

*Sorghum halepense*

*Zea mays*

## HELMINTHOSPORIUM SPP.

*Andropogon saccharoides*

*Cynodon dactylon*

*Gossypium hirsutum*

*Sorghum vulgare*

*Sorghum vulgare* var.

*sudanense*

*Triticum aestivum*

*Uniola latifolia*

*Zea mays*

## HENDERSONIA EFFUSA

*Aristida purpurascens*

## HENDERSONIA MACULANS

*Camellia japonica*

## HETERODERA MARIONI

*Althaea rosea*

*Anchusa myosotidiflora*

*Anthirrhinum majus*

*Aquilegia* sp.

*Armoracia rusticana*

*Beta vulgaris*

*Brassica oleracea* var.

*capitata*

*Brassica rapa*

*Carya illinoensis*

*Catalpa speciosa*

*Chrysanthemum* spp.

*Citrullus vulgaris*

- Coleus* sp.  
*Cucumis melo*  
*Cucumis sativus*  
*Cucurbita maxima*  
*Cycas* sp.  
*Cyclamen* spp.  
*Cyclamen* spp.  
*Dahlia* spp.  
*Daucus carota*  
*Dianthus caryophyllus*  
*Ficus aurea*  
*Fragaria* spp.  
*Fraxinus pennsylvanica*  
*Fraxinus pennsylvanica* var. *lanceolata*  
*Fraxinus* spp.  
*Gardenia* sp.  
*Gaylussacia* spp.  
*Gossypium hirsutum*  
*Hibiscus esculentus*  
*Hydrangea* sp.  
*Ipomoea batatas*  
*Ipomoea purpurea*  
*Iris* spp.  
*Lactuca sativa*  
*Lathyrus odoratus*  
*Lycopersicon esculentum*  
*Medicago sativa*  
*Morus alba*  
*Pastinaca sativa*  
*Phaseolus aureus*  
*Phaseolus vulgaris*  
*Prunus persica*  
*Prunus persica* var. *nectarina*  
*Rheum rhaponticum*  
*Robinia pseudoacacia*  
*Rosa* spp.  
*Solanum tuberosum*  
*Spinacia oleracea*  
*Tragopogon porifolius*  
*Ulmus americana*  
*Ulmus pumila*  
*Ulmus* spp.  
*Viburnum* sp.
- Vigna sinensis*  
*Vitis* spp.  
*Zea mays*
- HETEROSPORIUM  
 IRIDIS  
*Belamcanda chinensis*  
*Iris versicolor*
- HETEROSPORIUM  
 SAMBUCCI  
*Sambucus canadensis*
- HETEROSPORIUM  
 VARIABILE  
*Spinacia oleracea*
- HETEROSPORIUM SPP.  
*Cheiranthus cheiri*  
*Lathyrus odoratus*  
*Triticum aestivum*
- HYDNUM SP.  
*Ulmus* spp.
- HYPOXYLON ATROPUNCTATUM  
*Quercus marilandica*
- HYPOXYLON SP.  
*Platanus occidentalis*
- KELLERMANIA YUCCIGENA  
*Yucca filamentosa*  
*Yucca glauca*
- KUEHNEOLA UREDINIS  
*Rubus* spp. (Blackberry)
- KUNKELIA NITENS  
*Rubus hispidus*  
*Rubus* spp. (Blackberry-  
*Rubus* sp. (Boysenberry)
- LASIOSPHAERIA SP.  
*Artemisia ludoviciana*
- LENZITES SAEPIARIA  
*Pinus* spp.
- LENZITES SP.  
*Quercus macrocarpa*

- LEPTOSPHAERIA CON-  
IOTHYRIUM  
*Rubus idaeus*  
*Rubus* spp. (Blackberry)
- LEPTOSPHAERIA  
MUHLENBERGIAE  
*Muhlenbergia sobolifera*
- LEPTOSPHAERIA VAGA-  
BUNDA  
*Hydrangea arborescens*
- LEPTOTHYRIUM ACER-  
INUM  
*Acer saccharum*
- LEPTOTHYRIUM NER-  
VISEDUM  
*Carya illinoensis*
- LEPTOTHYRIUM POMI  
*Diospyros kaki*  
*Malus sylvestris*  
*Rubus idaeus*
- LOPHIOSTOMA ASPERUM  
*Ulmus americana*
- MACROPHOMA BOLTONIAE  
*Boltonia diffusa*
- MACROPHOMA NEGUN-  
DINIS  
*Acer negundo*
- MACROPHOMA NERVICOLA  
*Quercus alba*
- MACROPHOMA SPP.  
*Cotinus coggygria*  
*Salix discolor*  
*Sophora affinis*
- MACROPHOMINA PHASEOLI  
*Soja max*  
*Vigna sinensis*
- MACROSPORIUM CAMEL-  
LIAE  
*Camellia japonica*
- MACROSPORIUM CHEI-  
RANTHI  
*Spinacia oleracea*
- MACROSPORIUM COM-  
MUNE  
*Cicuta maculata*
- MACROSPORIUM CU-  
CUMERINUM  
*Citrullus vulgaris*  
*Cucumis melo*  
*Cucumis sativus*
- MARSSONINA JUGLANDIS  
*Juglans nigra*  
*Juglans regia*
- MARSSONINA MARTINI  
*Quercus muhlenbergii*  
*Quercus stellata*
- MARSSONINA OCHROLEUCA  
*Castanea pumila*  
*Castanea* sp.
- MARSSONINA POPULI  
*Populus alba*  
*Salix* spp.
- MELAMPSORA ABIETI-  
CAPRAEARUM  
*Salix interior*  
*Salix longipes*  
*Salix nigra*
- MELAMPSORA ABIETIS-  
CANADENSIS  
*Populus sargentii*
- MELAMPSORA ALBERTENSIS  
*Populus angustifolia*  
*Populus* spp.
- MELAMPSORA BIGELOWII  
*Salix* spp.
- MELAMPSORA LINI  
*Linum usitatissimum*

## MELAMPSORA MEDUSAE

*Populus deltoides**Populus* spp.

## MELAMPSORELLA

CERASTII

*Picea* sp.MELANCONIUM FULIG-  
INEUM*Vitis* spp.

## MELANOPSICHIMUM

AUSTRO-AMERICANA

*Polygonum lapathifolium**Polygonum pennsylvanicum*

## MELASMIA HYPOPHYLLA

*Gleditsia triacanthos*

## METASPHAERIA SP.

*Echinaca angustifolia*

## MICROSPHAERA ALNI

*Gleditsia triacanthos**Ligustrum amurense**Lonicera heckrottii**Platanus occidentalis**Quercus muhlenbergii**Quercus rubra**Quercus stellata**Syringa persica**Syringa vulgaris*

## MICROSPHAERA DIFFUSA

*Symphoricarpos orbiculatus*

## MICROSTROMA JUGLANDIS

*Carya texana*

## MONASCUS PURPUREUS

*Sorghum halepense*

## MONILINIA FRUCTICOLA

*Malus sylvestris**Prunus armeniaca**Prunus persica**Prunus* spp. (Cherry)*Prunus* spp. (Plum)*Vitis* spp. (Grape)MONILOCHAETES INFUS-  
CANS*Ipomoea batatas*MONOCHAETIA DESMA-  
ZIERII*Quercus marilandica*

## MORENOELLA QUERCINA

*Quercus* spp.

## MUCILAGO SPONGIOSA

*Cynodon dactylon**Fragaria* spp.*Ilex* spp.

## MYCOSPHAERELLA

CARYIGENA

*Carya illinoensis*

## MYCOSPHAERELLA

CERCIDICOLA

*Cercis canadensis*

## MYCOSPHAERELLA

FRAGARIAE

*Fragaria virginiana**Fragaria* spp.*Fragaria velutina*

## MYCOSPHAERELLA

LETHALIS

*Melilotus alba*

## MYCOSPHAERELLA

POLYMORPHA

*Platanus occidentalis*

## MYCOSPHAERELLA

RUBI

*Rubus* spp. (Blackberry)*Rubus* sp. (Dewberry)*Rubus* sp. (Loganberry)*Rubus* sp. (Raspberry)*Rubus* sp. (Youngberry)

## MYCOSPHAERELLA

SENTINA

*Pyrus communis*

**MYCOSPHAERELLA****THUJAE***Thuja occidentalis***MYCOSPHAERELLA ULMI***Ulmus fulva***MYCOSPHAERELLA SPP.***Quercus* spp.*Rubus* sp. (Boysenberry)**MYXOSPORIUM HYMENU-  
LOIDES***Ulmus pumila***MYXOSPORIUM SP.***Carya illinoensis***NECTRIA CINNABARINA***Ailanthus altissima**Albizzia julibrissin**Althaea* sp.*Broussonetia papyrifera**Ficus carica**Juglans regia**Koelreuteria paniculata**Ligustrum vulgare**Melia azedarach**Mimosa* sp.*Poinciana gilliesi**Populus deltoides**Sophora japonica**Ulmus americana* var.*pendula**Ulmus pumila**Ulmus* spp.**NEMATOSPORA CORYLI***Phaseolus aureus**Soja max**Vigna sinensis***NEOFABRAEA MALICOR-  
TICIS***Malus sylvestris***NIGROSPORA SPHAERICA***Sorghum vulgare***NUMMULARIA DISCRETA***Malus sylvestris***OPHIOBOLUS CARICETI***Elymus villosus***OPHIOBOLUS GRAMINIS***Hordeum vulgare**Secale cereale***PARODIELLA GRIFFITHSII***Psoralea tenuiflora***PARODIELLA PERISPOR-  
IOIDES***Desmodium marilandicum**Psoralea cuspidata**Psoralea tenuiflora* var.  
*floribunda***PELLICULARIA FILAMEN-  
TOSA***Ipomoea batatas**Lycopersicon esculentum**Phaseolus vulgaris**Rheum rhaponticum**Solanum tuberosum***PELTELLEA SP.***Liquidambar styraciflua***PENICILLIUM DIGITATUM***Citrus paradisi***PENICILLIUM GLADIOLI***Gladiolus* spp.**PENICILLIUM SPP.***Cucumis melo**Dahlia* spp.*Gossypium hirsutum**Hyacinthus* spp.*Ipomoea batatas**Malus sylvestris**Narcissus* spp.*Tulipa* spp.*Zea mays***PENIOPHORA SPP.***Quercus* spp.*Ulmus americana***PERONOSPORA ANTIR-  
RHINI***Antirrhinum majus*

PERONOSPORA ARTHURI <i>Oenothera laciniata</i>	PEZICULA CARPINEA <i>Carpinus caroliniana</i>
PERONOSPORA CORYDALIS <i>Corydalis</i> sp.	PHAEOSPHAERELLA PASPALI <i>Paspalum</i> sp.
PERONOSPORA EFFUSA <i>Chenopodium album</i> <i>Monolepis nuttalliana</i> <i>Spinacia oleracea</i>	PHAEOTRYPE SP. <i>Populus</i> spp.
PERONOSPORA LINARIAE <i>Linaria canadensis</i>	PHLEOSPORA ACERIS <i>Acer saccharinum</i>
PERONOSPORA MAN- SHURICA <i>Soja max</i>	PHLEOSPORA MULTI- MACULANS <i>Juglans regia</i>
PERONOSPORA PARASITICA <i>Brassica oleracea</i> var. <i>capitata</i> <i>Capsella bursa-pastoris</i> <i>Descurainia richardsonii</i> spp. <i>incisa</i> <i>Lepidium virginicum</i>	PHOMA BETAE <i>Beta vulgaris</i>
PERONOSPORA SCHLEIDENI <i>Allium cepa</i>	PHOMA BOLTONIAE <i>Boltonia diffusa</i>
PERONOSPORA TRIFOLI- ORUM <i>Medicago sativa</i>	PHOMA CONIDIOGENA <i>Buxus sempervirens</i>
PERONOSPORA VICIAE <i>Pisum sativum</i> var. <i>arvense</i>	PHOMA DESTRUCTIVA <i>Lycopersicon esculentum</i>
PERONOSPORA SPP. <i>Chenopodium</i> sp. <i>Teucrium canadense</i> <i>Valerianella</i> sp.	PHOMA LINGAM <i>Brassica oleracea</i> var. <i>capitata</i>
PESTALOTIA OENOTHERAE <i>Oenothera serrulata</i>	PHOMA MEDICAGINIS <i>Medicago sativa</i>
PESTALOTIA FUNEREA <i>Thuja occidentalis</i>	PHOMA POMI <i>Malus sylvestris</i>
PESTALOTIA RHODO- DENDRI <i>Rhododendron</i> spp.	PHOMA RUBICOLA <i>Rubus idaeus</i>
PESTALOTIA SP. <i>Cercis canadensis</i>	PHOMA TERRESTRIS <i>Solanum carolinense</i> <i>Vigna sinensis</i>
	PHOMA SPP. <i>Carya illinoensis</i> <i>Opuntia rafinesquii</i> <i>Perovskia atriplicifolia</i> <i>Sorghum vulgare</i> <i>Vitex agnuscastus</i>

**PHOMOPSIS FOVEOLARIS**

*Euonymus fortunei* var.  
*vegetus*

**PHOMOPSIS GARDENIAE**

*Gardenia*, sp.

**PHOMOPSIS JUNIPERO-  
VORA**

*Juniperus* spp.  
*Thuja occidentalis*

**PHOMOPSIS VEXANS**

*Solanum melongena*

**PHOMOPSIS SP.**

*Bromus commutatus*

**PHORADENDRON FLAVE-  
SCENS**

*Acer* spp.  
*Carya illinoensis*  
*Juglans nigra*  
*Populus deltoides*  
*Quercus marilandica*  
*Quercus rubra* f. *triloba*  
*Quercus stellata*  
*Ulmus alata*  
*Ulmus americana*  
*Ulmus fulva*  
*Ulmus* spp.

**PHRAGMIDIUM SP.**

*Rosa* spp.

**PHYLLACHORA BOUTE-  
LOUAE**

*Bouteloua curtipendula*  
*Buchloe dactyloides*

**PHYLLACHORA DIPLO-  
CARPA**

*Distichlis spicata*

**PHYLLACHORA GRAMINIS**

*Panicum virgatum*

**PHYLLACHORA LUTEO-  
MACULATA**

*Andropogon furcatus*  
*Andropogon saccharoides*  
*Andropogon scoparius*

**PHYLLACHORA PUNCTUM**

*Panicum commutatum*  
*Panicum huachucae* var.  
*fasciculatum*  
*Panicum tennesseense*

**PHYLLACHORA VULGATA**

*Muhlenbergia capillaris*  
*Sporobolus cryptandrus*

**PHYLLACHORA WILSONI**

*Panicum obtusum*  
*Paspalum stramineum*

**PHYLLACHORA SP.**

*Dactylis glomerata*

**PHYLLACTINIA CORYLEA**

*Cladrastis lutea*  
*Quercus marilandica*

**PHYLLOSTICTA APOCYNI**

*Apocynum cannabinum*

**PHYLLOSTICTA ARBUTI-  
FOLIA**

*Aronia* sp.

**PHYLLOSTICTA ARGYREA**

*Elaeagnus angustifolia*

**PHYLLOSTICTA BATATAS**

*Ipomoea batatas*

**PHYLLOSTICTA BER-  
BERIDIS**

*Berberis mentorensis*

**PHYLLOSTICTA BETULINA**

*Betula nigra*

**PHYLLOSTICTA BRUNNEA**

*Populus alba* var.  
*pyramidalis*  
*Populus angustifolia*

**PHYLLOSTICTA BUMELII-  
FOLIA**

*Bumelia lanuginosa*

**PHYLLOSTICTA CARYAE**

*Carya ovata*

- PHYLLOSTICTA CATALPAE  
*Catalpa speciosa*
- PHYLLOSTICTA CELTIDIS  
*Celtis occidentalis*
- PHYLLOSTICTA CERCIDI-  
 COLA  
*Cercis canadensis*
- PHYLLOSTICTA CIRCULI-  
 GERENS  
*Rumex altissimus*
- PHYLLOSTICTA COM-  
 MONSII  
*Paeonia* spp.
- PHYLLOSTICTA CONCAVA  
*Opuntia rafinesquii*
- PHYLLOSTICTA DECIDUA  
*Lycopus americanus*  
*Monarda dispersa*  
*Monarda punctata*
- PHYLLOSTICTA ERRATICA  
*Ulmus americana*
- PHYLLOSTICTA EUONYMI  
*Euonymus fortunei* var.  
*vegetus*  
*Euonymus* spp.
- PHYLLOSTICTA FRAXINI-  
 COLA  
*Fraxinus velutina*
- PHYLLOSTICTA GROSSU-  
 LARIAE  
*Ribes aureum*
- PHYLLOSTICTA HIBISCINA  
*Hibiscus esculentus*  
*Hibiscus rosa-sinensis*
- PHYLLOSTICTA ILICICOLA  
*Ilex opaca*
- PHYLLOSTICTA JAPONICA  
*Berberis thunbergii*
- PHYLLOSTICTA LAGER-  
 STROEMIAE  
*Lagerstroemia indica*
- PHYLLOSTICTA LAR-  
 PENTAE  
*Ceratostigma plumbag-  
 inoides*
- PHYLLOSTICTA LIVIDA  
*Quercus stellata*
- PHYLLOSTICTA LONI-  
 CERAE  
*Lonicera* sp.
- PHYLLOSTICTA MAXIMA  
*Rhododendron* spp.
- PHYLLOSTICTA MEDI-  
 CAGINIS  
*Medicago sativa*
- PHYLLOSTICTA MELA-  
 LEUCA  
*Ulmus americana*
- PHYLLOSTICTA MINIMA  
*Acer rubrum*
- PHYLLOSTICTA NANDINAE  
*Nandina domestica*
- PHYLLOSTICTA OPACA  
*Ilex opaca*
- PHYLLOSTICTA PAVIAE  
*Aesculus pavia*
- PHYLLOSTICTA PHASE-  
 OLINA  
*Phaseolus vulgaris*  
*Strophostyles helvola*  
*Vigna sinensis*
- PHYLLOSTICTA PODO-  
 PHYLLI  
*Podophyllum peltatum*
- PHYLLOSTICTA SASSA-  
 FRAS  
*Sassafras albidum*

PHYLLOSTICTA SMILACIS  
*Smilax glauca*

PHYLLOSTICTA SOLITARIA  
*Malus sylvestris*  
*Pyrus communis*

PHYLLOSTICTA SORBI  
*Sorbus americana*

PHYLLOSTICTA SYMPHOR-  
ICARPI  
*Symphoricarpos* sp.

PHYLLOSTICTA SYRINGAE  
*Syringa vulgaris*

PHYLLOSTICTA TERM-  
INALIS  
*Forsythia viridissima*

PHYLLOSTICTA TUB-  
EROSA  
*Asclepiodora decumbens*

PHYLLOSTICTA VIRIDIS  
*Fraxinus americana*

PHYLLOSTICTA VITICOLA  
*Parthenocissus quinque-  
folia*  
*Vitis cinerea*  
*Vitis rupestris*

PHYLLOSTICTA SPP.  
*Bromus inermis*  
*Callirhoe involucrata*  
*Carpinus caroliniana*  
*Cicuta maculata*  
*Cocculus carolinus*  
*Commelina virginica*  
*Crataegus* spp.  
*Euphorbia corollata*  
*Ilex* spp.  
*Koeleruteria paniculata*  
*Lonicera orientalis* var.  
*caucasica*  
*Mahonia aquifolium*  
*Panicum obtusum*  
*Smilax hispida*

*Smilax lanceolata*  
*Sorghastrum nutans*  
*Tribulus terrestris*  
*Ulmus fulva*  
*Viburnum rufidulum*

PHYMATOTRICHUM  
OMNIVORUM  
*Celtis occidentalis*  
*Gleditsia triacanthos*  
*Gossypium hirsutum*  
*Gymnocladus dioica*  
*Ipomoea batatas*  
*Juniperus* spp.  
*Ligustrum* sp.  
*Lycopersicon esculentum*  
*Medicago sativa*  
*Morus alba*  
*Populus* spp.  
*Prunus armeniaca*  
*Pyrus communis*  
*Robinia pseudoacacia*  
*Sapindus drummondi*  
*Soja max*  
*Ulmus pumila*  
*Ulmus* spp.  
*Vigna sinensis*

PHYSALOSPORA OBTUSA  
*Malus sylvestris*  
*Pyrus communis*

PHYSARUM CINEREUM  
*Cynodon dactylon*

PHYSODERMA ZEAE-  
MAYDIS  
*Zea mays*

PHYTOMONAS DISSOLVENS  
*Zea mays*

PHYTOMONAS LATHYRI  
*Lathyrus odoratus*  
*Melilotus alba*

PHYTOMONAS RHAPONTICA  
*Rheum rhaponticum*

**PHYTOPHTHORA CAC-  
TORUM**

*Fragaria* spp.  
*Rheum rhaponticum*

**PHYTOPHTHORA  
CAMBIVORA**  
*Castanea pumila*

**PHYTOPHTHORA  
CRYPTOGEA**  
*Antirrhinum majus*

**PHYTOPHTHORA  
FRAGARIAE**  
*Fragaria* spp.

**PHYTOPHTHORA  
TERRESTRIS**  
*Lycopersicon esculentum*

**PHYTOPHTHORA SPP.**  
*Solanum tuberosum*  
*Zinnia elegans*

**PIGGOTIA FRAXINI**  
*Fraxinus americana*

**PILEOLARIA EFFUSA**  
*Rhus rhomboidea*

**PILEOLARIA PATZCUA-  
RENSIS**  
*Rhus trilobata*

**PILEOLARIA TOXICO-  
DENDRI**  
*Rhus toxicodendron*

**PIRICULARIA GRISEA**  
*Cynodon dactylon*  
*Digitaria sanguinalis*  
*Setaria lutescens*

**PLASMODIOPHORA  
BRASSICAE**  
*Brassica oleracea* var.  
*capitata*

**PLASMOPARA GERANII**  
*Geranium carolinianum*

**PLASMOPARA HALSTEDII**  
*Ambrosia trifida*  
*Hymenopappus scabiosaeus*  
*Rudbeckia hirta*

**PLASMOPARA VITICOLA**  
*Vitis rupestris*  
*Vitis* spp.

**PLENODOMUS DESTRUENS**  
*Ipomoea batatas*

**PLEOSPHAERULINA  
BRIOSIANA**  
*Medicago sativa*

**PLEOSPORA TROPAEOLI**  
*Tropaeolum majus*

**PLEOSPORA SP.**  
*Bromus tectorum*

**PODOSPHAERA LEUCO-  
TRICHA**  
*Malus sylvestris*

**PODOSPHAERA OXYCAN-  
THAE**  
*Prunus cerasus*  
*Prunus* spp. (Cherry)

**POLYPORUS ARCULARIUS**  
*Quercus* spp.

**POLYPORUS CONCHIFER**  
*Ulmus americana*

**POLYPORUS DICHROUS**  
*Quercus* spp.

**POLYPORUS DRYADEUS**  
*Quercus alba*  
*Quercus marilandica*  
*Quercus* spp.

**POLYPORUS DRYOPHILUS**  
*Quercus marilandica*

**POLYPORUS GILVUS**  
*Acer* spp.

*Betula nigra*  
*Quercus* spp.

## POLYPORUS HIRSUTUS

*Betula nigra*  
*Forsythia* spp.  
*Quercus* spp.

## POLYPORUS OBTUSUS

*Quercus marilandica*

## POLYPORUS VERSICOLOR

*Fraxinus* spp.  
*Malus sylvestris*  
*Quercus macrocarpa*  
*Quercus* spp.

## PORIA SP.

*Prunus serotina*

PSEUDOMONAS ALBO-  
PRECIPITANS

*Sorghum vulgare*

PSEUDOMONAS ANDRO-  
POGONI

*Sorghum vulgare*

PSEUDOMONAS ATRO-  
FACIENS

*Triticum aestivum*

PSEUDOMONAS CORONA-  
FACIENS

*Avena sativa*

## PSEUDOMONAS GLYCINEA

*Soja max*

PSEUDOMONAS LACHRY-  
MANS

*Cucumis sativus*

PSEUDOMONAS MARGI-  
NATA

*Gladiolus* spp.  
*Iris* spp.

PSEUDOMONAS MEDICA-  
GINIS

*Medicago sativa*

PSEUDOMONAS MEDICA-  
GINIS var. PHASEOL-  
ICOLA

*Phaseolus vulgaris*  
*Pueraria thunbergiana*

## PSEUDOMONAS MORI

*Morus alba*

## PSEUDOMONAS PISI

*Pisum sativum*  
*Pisum sativum* var.  
*arvense*

## PSEUDOMONAS SYRINGAE

*Phaseolus lunatus*  
*Prunus persica*  
*Prunus* spp. (Cherry)  
*Sorghum halepense*  
*Sorghum vulgare*  
*Vigna catjang*  
*Vigna sinensis*

## PSEUDOMONAS TABACI

*Nicotiana tabacum*  
*Soja max*

## PSEUDOMONAS WOODSII

*Dianthus caryophyllus*

PSEUDOPERONOSPORA  
CUBENSIS

*Cucumis melo*  
*Cucumis sativus*

PSEUDOPEZIZA MEDI-  
CAGINIS

*Medicago sativa*

## PSEUDOPEZIZA TRIFOLII

*Trifolium* spp.

## PUCCINIA ABSINTHII

*Artemisia gnaphalodes*

## PUCCINIA AMPHIGENA

*Calamovilfa gigantea*  
*Calamovilfa longifolia*  
*Smilax bona-nox*  
*Smilax herbacea*

## PUCCINIA ANOMALA

*Hordeum vulgare*

## PUCCINIA ANDROPOGONIS

*Andropogon furcatus*  
*Andropogon glomeratus*

- Andropogon scoparius*  
*Andropogon ternarius*  
*Andropogon virginicus*
- Puccinia Andropogonis Onobrychidis**  
*Baptisia australis*  
*Baptisia bracteata*  
*Dalea enneandra*
- Puccinia Andropogonis Oxalidis**  
*Oxalis corniculata*
- Puccinia Andropogonis Pentstemonis**  
*Penstemon jamesii*  
*Penstemon tenuiflorus*
- Puccinia Andropogonis Xanthoxyli**  
*Zanthoxylum americanum*  
*Zanthoxylum clava-herculis*
- Puccinia Anthirrhini**  
*Antirrhinum majus*
- Puccinia Aristidae**  
*Chenopodium album*  
*Distichlis spicata*  
*Distichlis stricta*
- Puccinia Arundinariae**  
*Arundinaria gigantea*
- Puccinia Asparagi**  
*Asparagus officinalis*
- Puccinia Asteris**  
*Aster drummondii*
- Puccinia Atropuncta**  
*Veratrum woodii*
- Puccinia Bartholomaei**  
*Asclepias tuberosa*  
*Asclepiodora decumbens*  
*Asclepiodora viridis*  
*Bouteloua curtipendula*  
*Lepthochloa filiformis*
- Puccinia Boutelouae**  
*Bouteloua curtipendula*
- Puccinia Canaliculata**  
*Cyperus esculentus*  
*Cyperus rotundus*  
*Cyperus strigosus*  
*Cyperus* spp.  
*Xanthium* spp..
- Puccinia Caricis Grossulariata**  
*Ribes odoratum*
- Puccinia Caulicola**  
*Salvia lanceolata*
- Puccinia Cenchri**  
*Cenchrus pauciflorus*
- Puccinia Chloridis**  
*Chloris verticillata*
- Puccinia Chrysanthemi**  
*Chrysanthemum morifolium*  
*Chrysanthemum* spp.
- Puccinia Cirsii**  
*Cirsium discolor*  
*Cirsium undulatum* var. *megacephalum*
- Puccinia Conoclinii**  
*Eupatorium coelestinum*
- Puccinia Convolvuli**  
*Convolvulus arvensis*
- Puccinia Coronata**  
*Avena sativa*  
*Lolium multiflorum*  
*Lolium perenne*  
*Phalaris caroliniana*  
*Polypogon monspeliensis*
- Puccinia Crandallii**  
*Symphoricarpos orbiculatus*
- Puccinia Crassipes**  
*Ipomoea purpurea*

## PUCCINIA CYNODONTIS

*Cynodon dactylon*

## PUCCINIA CYPERI

*Cyperus filiculmis**Cyperus pseudovegetus**Cyperus schweinitzi**Cyperus* spp.*Erigeron canadensis**Erigeron strigosus*

## PUCCINIA EATONIAE

*Sphenopholis obtusata*

## PUCCINIA ELEOCHARIDIS

*Eleocharis obtusa**Eleocharis tenuis**Eupatorium serotinum*

## PUCCINIA ELLISIANA

*Andropogon scoparius*

## PUCCINIA EMACULATA

*Panicum capillare**Paspalum stramineum*

## PUCCINIA ERAGROSTIDIS

*Eragrostis pilosa*

## PUCCINIA EXTENSICOLA

ERIGERONTIS

*Carex bicknellii**Carex gravida**Carex vulpinoidea**Erigeron strigosus*

## PUCCINIA EXTENSICOLA

OENOTHERAE

*Oenothera* spp.

## PUCCINIA FARINACEA

*Salvia pitcheri*

## PUCCINIA FLACCIDA

*Echinochloa crusgalli*

## PUCCINIA GLUMARUM

*Hordeum pusillum*

## PUCCINIA GRAMINIS

*Aegilops cylindrica**Agropyron dasystachyum**Agropyron inerme**Agropyron smithii**Agropyron trachycaulum**Agrostis alba**Bromus commutatus**Bromus secalinus**Dactylis glomerata**Elymus canadensis**Elymus glaucus**Elymus junceus**Elymus virginicus**Hordeum bulbosum**Hordeum pusillum**Hordeum vulgare**Phalaris angusta**Secale cereale*

## PUCCINIA GRAMINIS

AVENAE

*Avena sativa*

## PUCCINIA GRAMINIS

PHLEI-PRATENSIS

*Phleum pratense*

## PUCCINIA GRAMINIS

TRITICI

*Triticum aestivum**Triticum dicoccum**Triticum spelta*

## PUCCINIA GRINDELIAE

*Chrysopsis berlandieri**Hymenopappus carolinensis*

## PUCCINIA HELIANTHI

*Helianthus annuus**Helianthus hirsutus**Helianthus mollis**Helianthus petiolaris**Helianthus tuberosus**Helianthus* spp.

## PUCCINIA HIERACII

*Pyrrhopappus carolinianus**Pyrrhopappus grandiflorus**Pyrrhoppapus multicaulis**Taraxacum officinale*

## PUCCINIA IMPOSITA

*Leptoloma cognatum*

## PUCCINIA IRIDIS

*Iris* spp.

## PUCCINIA IRREQUISITA

*Centaurea americana*

## PUCCINIA JONESII

*Lomatium daucifolium**Lomatium orientale*

## PUCCINIA KANSENSIS

*Buchloe dactyloides*

## PUCCINIA LUXURIOSA

*Sporobolus airoides*

## PUCCINIA MALVACEARUM

*Althaea rosea**Malva rotundifolia*

## PUCCINIA MENTHAE

*Monarda fistulosa* var.*mollis**Pycnanthemum pilosum*

## PUCCINIA MILLEFOLII

*Artemisia ludoviciana*

## PUCCINIA OBLIQUA

*Gonolobus laevis**Philibertia cynanchoides**Vincetoxicum* sp.

## PUCCINIA OBTECTA

*Scirpus americanus*

## PUCCINIA OBTEGENS

*Cirsium undulatum* var.*megacephalum*

## PUCCINIA PANICI

*Euphorbia marginata**Panicum virgatum*PUCCINIA PERIDERMIOS-  
PORA*Fraxinus* spp.*Spartina gracilis**Spartina pectinata*

## PUCCINIA PHRAGMITIS

*Rumex venosus*

## PUCCINIA PODOPHYLLI

*Podophyllum peltatum*PUCCINIA POLYGONI-  
AMPHIBII*Polygonum lapathifolium*PUCCINIA POLYGONI-  
AMPHIBII CONVULVULI*Polygonum dumetorum**Polygonum scandens*PUCCINIA POLYGONI-  
AMPHIBII PERSICARIAE*Polygonum hartwrightii**Polygonum punctatum*

## PUCCINIA PURPUREA

*Sorghum halepense**Sorghum vulgare*PUCCINIA RUBIGO-VERA  
AGROPYRINA*Bromus commutatus**Lolium perenne*PUCCINIA RUBIGO-VERA  
AGROPYRINA*Agropyron smithii**Clematis* sp.*Elymus virginicus*PUCCINIA RUBIGO-  
VERA APOCRYPTA*Ellisia nyctelea*PUCCINIA RUBIGO-VERA  
IMPATIENTIS*Elymus canadensis**Elymus virginicus*PUCCINIA RUBIGO-VERA  
SECALIS*Secale cereale*PUCCINIA RUBIGO-VERA  
TRITICI*Agropyron trichophoron**Triticum aestivum**Triticum spelta*

## PUCCINIA SCHEDONNARDI

*Callirhoe digitata*  
*Callirhoe involucrata*  
*Gossypium hirsutum*  
*Muhlenbergia mexicana*  
*Muhlenbergia schreberi*  
*Triplasis purpurea*

## PUCCINIA SESSILIS

*Phalaris angusta*  
*Smilacina racemosa*

## PUCCINIA SEYMOURIANA

*Apocynum sibiricum*  
*Spartina pectinata*

## PUCCINIA SHERARDIANA

*Sphaeralcea coccinea*

## PUCCINIA SIMULANS

*Sporobolus cryptandrus*

## PUCCINIA SMILACIS

*Smilax bona-nox*  
*Smilax glauca*  
*Smilax rotundifolia*  
*Smilax* spp.

## PUCCINIA SORGHI

*Oxalis filipes*  
*Oxalis violacea*  
*Zea mays*

## PUCCINIA SUBSTRIATA

*Paspalum stramineum*

## PUCCINIA TRIPSACI

*Andropogon furcatus*

## PUCCINIA TUMIDIPE

*Lycium pallidum*

## PUCCINIA VERNONIAE

*Vernonia baldwini*  
*Vernonia crinita*  
*Vernonia interior*

## PUCCINIA VEXANS

*Bouteloua curtipendula*

## PUCCINIA VILFAE

*Sporobolus asper*  
*Sporobolus neglectus*  
*Verbena canadensis*  
*Verbena stricta*  
*Verbena urticifolia*

## PUCCINIA VIOLAE

*Viola missouriensis*  
*Viola papilionacea*  
*Viola* sp.

## PUCCINIA VIRGATA

*Sorghastrum nutans*

## PUCCINIA WINDSORIAE

*Ptelea trifoliata*  
*Triodia flava*

## PUCCINIA XANTHII

*Ambrosia artemisiifolia*  
*Ambrosia trifida*  
*Xanthium canadense*  
*Xanthium chinense*  
*Xanthium inflexum*  
*Xanthium italicum*  
*Xanthium orientale*  
*Xanthium speciosum*  
*Xanthium* spp.

## PYRENOCHAETA SP.

*Glyceria striata*

## PYRENOPEZIZA MEDICAGINIS

*Medicago sativa*

## PYRENOPHORA COMATA

*Petalostemum oligophyllum*  
*Petalostemum purpureum*

## PYTHIUM APHANIDERMATUM

*Lycopersicon esculentum*  
*Phaseolus vulgaris*  
*Raphanus sativus*

## PYTHIUM ARRHENOMANES

*Sorghum vulgare*

## PYTHIUM DEBARYANUM

*Euphorbia pulcherrima**Zea mays*

## PYTHIUM SPP.

*Citrullus vulgaris**Ipomoea batatas**Lactuca sativa**Piqueria trinervia**Triticum aestivum*

## RAMULARIA CEPHALANTHI

*Cephalanthus occidentalis*

## RAMULARIA HAMAMELIDIS

*Hamamelis virginiana*

## RAMULARIA MONILOIDES

*Myrica cerifera*

## RAMULARIA OBOVATA

*Rumex crispus**Rumex hastatulus**Rumex venosus*

## RAMULARIA VERONICAE

*Veronica peregrina*

## RAVENELIA EPIPHYLLA

*Tephrosia virginiana*

## RHIZOCTONIA SOLANI

*Acer saccharinum**Agrostis* sp.*Antirrhinum majus**Arachis hypogaea**Callistephus chinensis**Cyamopsis tetragonoloba**Epidendrum* sp.*Fragaria* spp.*Fraxinus* spp.*Gossypium hirsutum**Hibiscus esculentus**Jasminum humile**Lathyrus odoratus**Linum usitatissimum**Lycopersicon esculentum**Medicago sativa**Pisum sativum**Prunus* spp. (Plum)*Raphanus sativus**Solanum tuberosum**Zea mays*

## RHIZOCTONIA SPP.

*Cynodon dactylon**Triticum aestivum*

## RHIZOPUS NIGRICANS

*Fragaria* spp.*Gossypium hirsutum**Ipomoea batatas**Prunus persica**Zea mays*

## RHYNCHOSPORIUM

SECALIS

*Hordeum vulgare*

## RHYTISMA ACERINUM

*Acer* spp.

## RHYTISMA VACCINII

*Gaylussacia* spp.*Vaccinium* sp.

## RHYTISMA SP.

*Ilex decidua*

## SCHIZOPHYLLUM

COMMUNE

*Acer* spp.*Carya illinoensis**Malus sylvestris**Prunus* spp. (Cherry)

## SCHIZOPHYLLUM SP.

*Ipomoea batatas*

## SCLEROSPORA FARLOWII

*Cynodon dactylon*

## SCLEROSPORA GRAMIN-

ICOLA

*Zea mays*

## SCLEROSPORA MACROS-

PORA

*Hordeum vulgare*

## SCLEROTINIA TRIFOL-

IORUM

*Trifolium* spp.

## SCLEROTIUM BATATICOLA

*Arachis hypogaea*  
*Bouteloua curtipendula*  
*Catalpa speciosa*  
*Chrysanthemum* spp.  
*Crotalaria* spp.  
*Gossypium hirsutum*  
*Ipomoea batatas*  
*Juniperus virginiana*  
*Medicago sativa*  
*Phaseolus aureus*  
*Soja max*  
*Solanum tuberosum*  
*Sorghum vulgare*  
*Sorghum vulgare* var.  
*sudanense*  
*Sorghum vulgare* var.  
*technicum*  
*Verbena hybrida*  
*Vigna sinensis*  
*Zea mays*  
*Zinnia elegans*

## SCLEROTIUM ROLFSII

*Allium cepa*  
*Aquilegia* sp.  
*Arachis hypogaea*  
*Gossypium hirsutum*  
*Ipomoea batatas*  
*Lycopersicon esculentum*  
*Physostegia virginiana*  
*Solanum tuberosum*  
*Vigna sinensis*

## SCLEROTIUM SCLEROTIORUM

*Lactuca sativa*

## SCOLECOTRICHUM

## GRAMINIS

*Alopecurus carolinianus*  
*Alopecurus geniculatus*  
*Dactylis glomerata*  
*Hordeum pusillum*  
*Hordeum vulgare*

## SCOLECOTRICHUM

## MACULICOLA

*Arundo donax*  
*Phragmites communis*

## SELENOPHOMA SPP.

*Sporobolus asper* var.  
*hookeri*  
*Sporobolus vaginiflorus*  
*Triodia flava*  
*Triodia stricta*

## SEPTORIA ANDROPOGONIS

*Andropogon furcatus*

## SEPTORIA APII

*Apium graveolens* var.  
*dulce*

## SEPTORIA ARGEMONES

*Argemone mexicana*

## SEPTORIA ASTERINA

*Aster drummondii*

## SEPTORIA BATATICOLA

*Ipomoea batatas*

## SEPTORIA BETAE

*Beta vulgaris*

## SEPTORIA BROMI

*Bromus carinatus*  
*Bromus commutatus*  
*Bromus purgans*  
*Bromus secalinus*  
*Bromus texensis*

## SEPTORIA CACALIAE

*Cacalia tuberosa*

## SEPTORIA CENTAUREI-

COLA var. BREVISPORA  
*Centaurea americana*

## SEPTORIA CHRYSANTHE-

MELLA  
*Chrysanthemum* spp.

SEPTORIA CONVULVULI  
*Convolvulus arvensis*

SEPTORIA CORNICOLA  
*Cornus asperifolia*  
*Cornus stolonifera*

SEPTORIA CYANI  
*Centaurea cyanus*

SEPTORIA DIVARICATA  
*Phlox* sp.

SEPTORIA DRYINA  
*Quercus coccinea*  
*Quercus marilandica*  
*Quercus palustris*

SEPTORIA ELYMI  
*Elymus canadensis*

SEPTORIA ERIGERONTIS  
*Erigeron canadensis*  
*Erigeron strigosus*

SEPTORIA ERIGERONTIS  
var. BOLTONIAE  
*Boltonia diffusa*  
*Boltonia latisquama*

SEPTORIA FRAXINI  
*Fraxinus nigra*  
*Fraxinus* spp.

SEPTORIA GAILLARDIAE  
*Gaillardia aristata*  
*Gaillardia pulchella*  
*Gaillardia* sp.

SEPTORIA GAURINA  
*Gaura biennis*  
*Gaura coccinea*

SEPTORIA GLADIOLI  
*Gladiolus* spp.

SEPTORIA HELIANTHI  
*Helianthus annuus*  
*Helianthus* spp.

SEPTORIA INCONSPICUA  
*Plantago purshii*

SEPTORIA IRREGULARIS  
*Rhus toxicodendron*

SEPTORIA JATHROPHAE  
*Cnidioscolus texanus*

SEPTORIA LACTUCICOLA  
*Lactuca canadensis*

SEPTORIA LAMII  
*Lamium amplexicaule*

SEPTORIA LAVANDULAE  
*Lavandula* sp.

SEPTORIA LEPTOSTACHYA  
*Phryma leptostachya*

SEPTORIA LINICOLA  
*Linum usitatissimum*

SEPTORIA LIQUIDAMBARIS  
*Liquidambar styraciflua*

SEPTORIA LOBELIAE  
*Lobelia cardinalis*  
*Lobelia siphilitica*

SEPTORIA LYCOPERSICI  
*Lycopersicon esculentum*

SEPTORIA MACROSPORIA  
*Chrysanthemum* spp.

SEPTORIA MAGNOLIAE  
*Magnolia* spp.

SEPTORIA MALVICOLA  
*Althaea rosea*

SEPTORIA MUNROAE  
*Munroa squarrosa*

SEPTORIA MUSIVA  
*Populus deltoides*

SEPTORIA NODORUM  
*Bromus* sp.  
*Triticum aestivum*

SEPTORIA OENOTHERAE  
*Oenothera biennis*  
*Oenothera laciniata*

- Oenothera missouriensis*  
*Oenothera missouriensis*  
 var. *incana*  
*Oenothera oklahomensis*  
*Oenothera pallida*  
*Oenothera rhombipetala*  
*Oenothera speciosa*
- SEPTORIA PASSERINI  
*Hordeum vulgare*
- SEPTORIA PETROSELINI  
*Petroselinum crispum*
- SEPTORIA PISI  
*Pisum sativum*
- SEPTORIA POLYGONORUM  
*Polygonum pennsylvanicum*
- SEPTORIA POPULI  
*Populus deltoides*
- SEPTORIA PTELEAE  
*Ptelea trifoliata*
- SEPTORIA PYRICOLA  
*Pyrus communis*
- SEPTORIA RIBIS  
*Ribes odoratum*  
*Ribes* spp.
- SEPTORIA RUBI  
*Rubus* spp. (Blackberry)  
*Rubus* sp. (Dewberry)
- SEPTORIA RUDBECKIAE  
*Rudbeckia hirta*
- SEPTORIA RUMICIS  
*Rumex altissimus*
- SEPTORIA SAMBUCINA  
*Sambucus canadensis*
- SEPTORIA SCUTELLARIAE  
*Scutellaria integrifolia*  
*Scutellaria parvula*
- SEPTORIA SISYMBRII  
*Descurainia richardsonii*  
 ssp. *incisa*
- SEPTORIA SPECULARIAE  
*Specularia biflora*  
*Specularia perfoliata*
- SEPTORIA TRILLII  
*Trillium recurvatum*
- SEPTORIA TRITICI  
*Triticum aestivum*
- SEPTORIA ULMI  
*Ulmus* spp.
- SEPTORIA VALERIANELLAE  
*Valerianella radiata*
- SEPTORIA VERBASCICOLA  
*Verascum blattaria*
- SEPTORIA VERBENAE  
*Verbena bracteata*  
*Verbena canadensis*  
*Verbena pumila*  
*Verbena urticifolia*
- SEPTORIA WISTARIAE  
*Wistaria* sp.
- SEPTORIA SPP.  
*Agropyron cristatum*  
*Agropyron trachycaulum*  
*Aplopappus ciliatus*  
*Boueloua curtispindula*  
*Bouteloua gracilis*  
*Carthamus tinctorius*  
*Chrysanthemum frutescens*  
*Cynodon dactylon*  
*Dactylis glomerata*  
*Fuchsia* sp.  
*Manisuris cylindrica*  
*Panicum clandestinum*  
*Panicum virgatum*  
*Plantago major*  
*Pyrrhopappus carolinianus*  
*Pyrrhopappus multicaulis*  
*Silene antirrhina*  
*Solidago* spp.  
*Sporobolus clandestinus*
- SOROSPORIUM ELLISII  
*Andropogon furcatus*

**SOROSPORIUM SYNTHESISMAE**

*Cenchrus pauciflorus*  
*Digitaria sanguinalis*

**SPHACELOTHECA CRUENTA**

*Sorghum halepense*  
*Sorghum vulgare*

**SPHACELOTHECA OCCIDENTALIS**

*Andropogon furcatus*  
*Andropogon scoparius*

**SPHACELOTHECA REILIANA**

*Sorghum vulgare*  
*Zea mays*

**SPHACELOTHECA SORGHI**

*Sorghum halepense*  
*Sorghum vulgare*

**SPHAEROPSIS LINEARIS**

*Carya cordiformis*  
*Carya ovata*

**SPHAEROPSIS MORI**

*Morus* sp.

**SPHAEROPSIS RHAMNI**

*Rhamnus cathartica*

**SPHAEROPSIS SYRINGAE**

*Syringa vulgaris*

**SPHAEROPSIS ULMICOLA**

*Ulmus* spp.

**SPHAEROPSIS SPP.**

*Juniperus virginiana*  
*Prunus* spp. (Plum)

**SPHAEROTHECA HUMULI**

*Fragaria* spp.

**SPHAEROTHECA PANNOSA**

*Rosa* spp.

**SPHAEROTHECA SP.**

*Rosa* spp.

**SPONGOSPORA SUBTERRANEA**

*Solanum tuberosum*

**SPORIDESMIUM CAPSULARUM**

*Catalpa speciosa*

**SPORONEMA PHACIDIROIDES**

*Medicago sativa*

**STAGONOSPORA**

**ARENARIA**

*Bouteloua curtipendula*

**STAGONOSPORA ISCHAEMI**

*Andropogon furcatus*  
*Andropogon hallii*

**STAGONOSPORA SPP.**

*Axonopus compressus*  
*Sorghastrum nutans*

**STEMPHYLIUM BOTRYOSUM**

*Allium cepa*

**STEMPHYLIUM TRITICI**

*Triticum aestivum*

**STEREUM ALBOBADIUM**

*Forsythia* spp.

**STEREUM FASCIATUM**

*Quercus* spp.

**STEREUM FRUSTULOSUM**

*Quercus* spp.

**STEREUM LOBATUM**

*Quercus* spp.

**STEREUM PURPUREUM**

*Celtis* sp.  
*Prunus persica*  
*Syringa vulgaris*

**STEREUM RAMEALE**

*Betula nigra*  
*Quercus* spp.

**STEREUM SP.**

*Quercus macrocarpa*

**SYNCHYTRIUM FULGENS**

*Oenothera laciniata*

- SYNCHYTRIUM GERANII**  
*Geranium carolinianum*
- SYNCHYTRIUM STELLARIAE**  
*Stellaria media*
- TAPHRINA CAERULESCENS**  
*Quercus alba*  
*Quercus marilandica*  
*Quercus rubra f. triloba*  
*Quercus* spp.
- TAPHRINA COMMUNIS**  
*Prunus americana*  
*Prunus* spp. (Cherry)  
*Prunus* spp. (Plum)
- TAPHRINA DEARNESSII**  
*Acer rubrum*
- TAPHRINA DEFORMANS**  
*Prunus persica*
- TAPHRINA MIRABILIS**  
*Prunus angustifolia*  
*Prunus* sp.
- TAPHRINA ROBINSONIANA**  
*Alnus incana*
- TAPHRINA ULMI**  
*Ulmus fulva*  
*Ulmus pumila*
- THIELAVIA BASICOLA**  
*Nicotiana tabacum*
- TILLETIA CRIES**  
*Triticum aestivum*
- TILLETIA FOETIDA**  
*Triticum aestivum*
- TILLETIA OKLAHOMAE**  
*Aristida longespica*
- TILLETIA PULCHERRIMA**  
*Panicum virgatum*
- TILLETIA TEXANA**  
*Hordeum pusillum*
- TRAMETES SEPIUM**  
*Quercus* spp.
- TRANZSCHELIA PRUNISPINOSAE**  
*Prunus americana*  
*Prunus angustifolia*  
*Prunus besseyi*  
*Prunus munsoniana*  
*Prunus orthosepala*  
*Prunus* spp. (Cherry)  
*Prunus* spp. (Plum)
- TRICHODERMA KONINGI**  
*Ipomoea batatas*
- TUBERCULINA FLAVOGRANULATA**  
*Desmodium paniculatum*
- TYLENCHUS DIPSACI**  
*Ipomoea batatas*  
*Medicago sativa*
- UNCINULA MACROSPORA**  
*Ulmus alata*  
*Ulmus fulva*
- UNCINULA NECATOR**  
*Vitis* spp.
- UNCINULA PARVULA**  
*Celtis* spp.
- UROCYSTIS AGROPYRI**  
*Elymus virginicus*
- UROCYSTIS CEPULAE**  
*Allium cepa*
- UROCYSTIS OCCULTA**  
*Secale cereale*
- UROMYCES CALADII**  
*Arisaema dracontium*  
*Arisaema triphyllum*
- UROMYCES CARYOPHYLLINUS**  
*Dianthus caryophyllus*

UROMYCES DACTYLIDIS

*Dactylis glomerata*

UROMYCES DICTYOS-  
PERMA

*Euphorbia dictyosperma*

UROMYCES ELEGANS

*Trifolium carolinianum*

*Trifolium procumbens*

UROMYCES ERAGROSTIDIS

*Eragrostis pectinacea*

*Eragrostis spectabilis*

UROMYCES GRAMINICOLA

*Aegilops cylindrica*

*Panicum virgatum*

*Stillingia sylvatica*

UROMYCES HEDYSARI-  
PANICULATI

*Desmodium paniculatum*

*Desmodium sessilifolium*

UROMYCES HORDEINUS

*Hordeum pusillum*

*Nothoscordum bivalve*

UROMYCES JUNCII

*Helianthus petiolaris*

UROMYCES LESPEDEZAE-  
PROCUMBENTIS

*Lespedeza hirta*

*Lespedeza intermedia*

*Lespedeza procumbens*

*Lespedeza repens*

*Lespedeza stuvei*

*Lespedeza violacea*

*Lespedeza virginica*

UROMYCES PECKIANUS

*Aristida basiramea*

*Aristida curtissii*

*Aristida desmantha*

*Aristida longespica*

*Aristida oligantha*

*Plantago aristata*

*Plantago heterophylla*

*Plantago purshii*

*Plantago virginica*

UROMYCES PHASEOLI

STROPHOSTYLIS

*Strophostyles helvola*

*Strophostyles pauciflora*

UROMYCES PHASEOLI

TYPICA

*Phaseolus vulgaris*

UROMYCES PHASEOLI

VIGNAE

*Vigna sinensis*

UROMYCES PLUMBARIUS

*Gaura biennis*

*Gaura coccinea*

*Gaura sinuata*

*Oenothera biennis*

*Oenothera laciniata*

UROMYCES PRIMAVERILIS

*Nothoscordum bivalve*

UROMYCES PROEMINENS

EUPHORBICOLA

*Euphorbia humistrata*

*Euphorbia maculata*

*Euphorbia stictospora*

UROMYCES PROEMINENS

MYRISTICA

*Euphorbia marginata*

UROMYCES PROEMINENS

POINSETTIAE

*Euphorbia dentata*

*Euphorbia marginata*

UROMYCES PROEMINENS

TYPICA

*Euphorbia maculata*

UROMYCES PSORALEAE

ARGOPHYLLAE

*Psoralea tenuiflora*

*Psoralea tenuiflora* var.  
*floribunda*

UROMYCES SPERMACOCES

*Diodia teres*

- UROMYCES STRIATUS  
MEDICAGINIS  
*Medicago lupulina*  
*Medicago sativa*
- UROMYCES TRIFOLII  
FALLENS  
*Trifolium pratense*
- UROMYCES ZYGADENI  
*Zygadenus nuttallii*
- UROPYXIS AMORPHAE  
*Amorpha canescens*  
*Amorpha fruticosa*
- USTILAGO AVENAE  
*Avena sativa*
- USTILAGO BOUTELOUAE  
*Bouteloua gracilis*  
*Bouteloua hirsuta*
- USTILAGO BULLATA  
*Bromus catharticus*  
*Bromus inermis*
- USTILAGO CRUS-GALLI  
*Echinochloa crusgalli*
- USTILAGO CYNODONTIS  
*Cynodon dactylon*
- USTILAGO HORDEI  
*Hordeum vulgare*
- USTILAGO KOLLERI  
*Avena sativa*
- USTILAGO MAYDIS  
*Zea mays*
- USTILAGO MINIMA  
*Stipa comata*
- USTILAGO NIGRA  
*Hordeum vulgare*
- USTILAGO NUDA  
*Hordeum vulgare*
- USTILAGO RABENHOR-  
STIANA  
*Digitaria sanguinalis*
- USTILAGO STRIAEFORMIS  
*Elymus virginicus*  
*Poa pratensis*
- USTILAGO TRICUSPIDIS  
*Triodia flava*
- USTILAGO TRITICI  
*Secale cereale*  
*Triticum aestivum*
- USTILAGO ZEAE  
*Euchlaena* sp.
- USTILAGO SP.  
*Andropogon saccharoides*
- VALSA AMBIENS  
*Malus sylvestris*
- VALSA CELTIDIS  
*Celtis occidentalis*
- VALSA LEUCOSTOMA  
*Malus sylvestris*  
*Prunus persica*  
*Prunus* spp. (Cherry)
- VALSA MACROCARPA  
*Quercus macrocarpa*
- VALSA SPP.  
*Albizia julibrissin*  
*Populus* spp.  
*Robinia pseudoacacia*
- VALSARIA ALLANTOSPORA  
*Acer negundo*
- VENTURIA INAEQUALIS  
*Malus sylvestris*  
*Pyracantha coccinea* var.  
*lalandii*
- VENTURIA PYRINA  
*Pyrus communis*
- VERMICULARIA COMPACTA  
*Dahlia* spp.

VERTICILLIUM ALBOAT-  
RUM

*Antirrhinum majus*  
*Gossypium hirsutum*

XANTHOMONAS CAMPES-  
TRIS

*Brassica oleracea* var.  
*botrytis*  
*Brassica oleracea* var.  
*capitata*

XANTHOMONAS GUM-  
MISUDANS

*Gladiolus* spp.

XANTHOMONAS HOLCICOLA

*Sorghum halepense*  
*Sorghum vulgare*

XANTHOMONAS JUGLANDIS

*Juglans regia*

XANTHOMONAS MALVA-  
CEARUM

*Gossypium arboreum*  
*Gossypium barbadense*  
*Gossypium contextum*  
*Gossypium herbaceum*  
*Gossypium hirsutum*  
*Gossypium peruvianum*  
*Gossypium sturti*

XANTHOMONAS PHASEOLI

*Phaseolus aureus*  
*Phaseolus vulgaris*  
*Vigna sinensis*

XANTHOMONAS PHASEOLI  
var. SOJENSE

*Soja max*

XANTHOMONAS PRUNI

*Prunus armeniaca*  
*Prunus persica*  
*Prunus persica* var.  
*nectarina*  
*Prunus* spp. (Cherry)  
*Prunus* spp. (Plum)

XANTHOMONAS TRANS-  
LUCENS f. sp. UNDULOSA  
*Triticum aestivum*

XANTHOMONAS VESCI-  
CATORIA

*Capsicum frutescens*  
*Lycopersicon esculentum*

XANTHOMONAS VIGNICOLA

*Vigna sinensis*

XYLARIA MALI

*Malus sylvestris*

XYLARIA SP.

*Prunus* spp.

VIRUS DISEASES:

ASTER YELLOWS

*Erigeron strigosus*  
*Lactuca sativa*

BUNCH DISEASE

*Carya illinoensis*

CURLY TOP

*Lycopersicon esculentum*  
*Spinacia oleracea*

DOUBLE-VIRUS STREAK

*Lycopersicon esculentum*

LEAF CURL

*Rubus* sp. (Raspberry)

LEAF ROLL

*Solanum tuberosum*

ALFALFA MOSAIC

*Medicago sativa*

CARNATION MOSAIC

*Dianthus caryophyllus*

CELERY MOSAIC

*Apium graveolens* var. *dulce*

COMMON BEAN MOSAIC

*Phaseolus vulgaris*

## CUCUMBER MOSAIC

*Cucumis melo*  
*Cucumis sativus*  
*Cucurbita maxima*  
*Pentunia hybrida*  
*Spinacia oleracea*

## DAHLIA MOSAIC

*Dahlia* spp.

## MILD MOSAIC

*Solanum tuberosum*

## NARCISSUS MOSAIC

*Narcissus* spp.

## ORNITHOGALUM MOSAIC

*Ornithogalum thyrsoides*  
var. *aureum*

## PHYTOLACCA MOSAIC

*Phytolacca americana*

## RUGOSE MOSAIC

*Solanum tuberosum*

## TOBACCO MOSAIC

*Nicotiana tabacum*

## TOMATO MOSAIC

*Lycopersicon esculentum*

## MOSAIC

*Amaryllis* spp.  
*Capsicum frutescens*  
*Cyamopsis tetragonoloba*  
*Melilotus alba*  
*Prunus persica*  
*Rubus* sp. (Raspberry)  
*Setaria italica*  
*Soja max*  
*Triticum aestivum*  
*Vigna sinensis*  
*Zea mays*  
*Zinnia elegans*

## PHONY DISEASE

*Prunus persica*

## PURPLE TOP WILT

*Solanum tuberosum*

## RINGSPOT

*Antirrhinum majus*

## ROSETTE

*Prunus persica*

## SINGLE-VIRUS STREAK

*Lycopersicon esculentum*

## SPINDLE TUBER

*Solanum tuberosum*

## STRAWBERRY CRINKLE

*Fragaria* spp.

## WESTERN YELLOW BLIGHT

*Lycopersicon esculentum*

## WITCHES BROOM

*Solanum tuberosum*

## YELLOW S

*Prunus persica*

## NONPARASITIC DISEASES:

## BITTER PIT

*Malus sylvestris*

## BLACK HEART

*Solanum tuberosum*

## BLACK LEAF SPOT

*Diospyros virginiana*

## BLAST

*Avena sativa*

## BLOSSOM-END ROT

*Lycopersicon esculentum*

## BROWNING

*Pinus* spp.

## BUD DROP

*Gardenia* sp.

## CATFACE

*Lycopersicon esculentum*

## DROUGHT INJURY

*Gossypium hirsutum*

*Medicago sativa*

*Thuja occidentalis*

## ENLARGED LENTICELS

*Solanum tuberosum*

## FASCIATION

*Antirrhinum majus**Ipomoea batatas*

## FROST INJURY

*Malus sylvestris**Prunus persica**Prunus* spp. (Cherry)*Prunus* spp. (Plum)*Pyrus communis**Rubus* spp. (Blackberry)*Rubus* sp. (Raspberry)

## HAIL INJURY

*Prunus persica*

## HAIR SPROUT

*Solanum tuberosum*

## HEAT CANKER

*Linum usitatissimum*

## HEAT INJURY

*Medicago sativa*

## HOLLOW HEART

*Solanum tuberosum*

## IRON DEFICIENCY

*Sorghum vulgare*

## JONATHON SPOT

*Malus sylvestris*

## KELSEY SPOT

*Prunus* spp. (Plum)

## JUNE YELLOWS

*Fragaria* spp.

## LEAF VARIEGATION

*Fragaria* spp.

## LIGHTNING INJURY

*Gossypium hirsutum*

## MANGANESE DEFICIENCY

*Gossypium hirsutum*

## MEASLES

*Vitis* spp.

## POTASH DEFICIENCY

*Gossypium hirsutum*

## ROSETTE

*Carya illinoensis*

## SUN SCALD

*Prunus* spp. (Plum)*Thuja occidentalis*

## SUN SCORCH

*Gossypium hirsutum*

## TIP BLIGHT

*Antirrhinum majus*

## TIPBURN

*Lactuca sativa**Solanum tuberosum*

## WATER BERRY

*Vitis* spp.

## WATER CORE

*Malus sylvestris*

## WINTER BROWNING

*Magnolia* spp.

## WINTER INJURY

*Medicago sativa*

## UNDETERMINED DISEASES:

## ANGULAR YELLOW SPOT

*Prunus persica*

## BROWN BLOTCH

*Pyrus communis*

## MEASLES

*Malus sylvestris*

## STIPPLE SPOT

*Prunus persica*

## INDEX TO COMMON NAMES OF HOSTS

Actinea, Fineleaf .....	8	Bean, Lima .....	73
Ailanthus, Treeofheaven .....	9	Bean, Mung .....	73
Albizzia, Silktree .....	9	Beautyberry, American .....	22
Alder .....	10	Beautyberry, Purple .....	22
Alder, Hazel .....	10	Beautybush .....	56
Alder, Speckled .....	10	Bedstraw, Catchweed .....	44
Alfalfa .....	65	Beebalm .....	66
Amaranth, Redroot .....	10	Beebalm, Purple Lemon .....	66
Amaranth, Spiny .....	10	Beebalm, Soft Wild- bergamot .....	66
Amaryllis .....	11	Beebalm, Spotted .....	67
Amorpha, Indigobush .....	11	Beet, Common .....	18
Amorpha, Leadplant .....	11	Bentgrass .....	9
Anglepod .....	46, 111	Bentgrass, Autumn .....	9
Antelopehorn, Spider .....	16	Bentgrass, Creeping .....	9
Anthurium, Flamingo .....	13	Bentgrass, Winter .....	9
Anthurium, Giant Flamingo .....	13	Bermudagrass .....	34
Apple .....	63	Bindweed, Field .....	30
Apricot .....	79	Birch, Paper .....	19
Arborvitae, Eastern .....	103	Birch, River .....	19
Ash .....	43	Blackberry .....	89
Ash, Black .....	43	Blackberry, Swamp .....	89
Ash, Green .....	43	Blackberrylily .....	18
Ash, Red .....	43	Blackeyedsusan .....	91
Ash, Toumey .....	43	Bladdernut, American .....	101
Ash, Velvet .....	43	Bladdersenna, Common .....	30
Ash, White .....	43	Blue-eyedgrass .....	94
Asparagus, Garden .....	17	Bluegrass, Big .....	77
Aspen .....	79	Bluegrass, Canada .....	77
Aspidistra, Common .....	17	Bluegrass, Canby .....	77
Aster, Drummond .....	17	Bluegrass, Kentucky .....	77
Aster, Heath .....	17	Bluestem .....	13
Aster, Willowleaf .....	17	Bluestem, Big .....	12
Azalea, Pinxterbloom .....	87	Bluestem, Bushy .....	12
Balloonflower .....	77	Bluestem, Eastindies .....	12
Barberry, Japanese .....	18	Bluestem, Little .....	12
Barberry, Mentor .....	18	Bluestem, Sand .....	12
Barley .....	50	Bluestem, Silver .....	12
Barley, Bulbous .....	50	Bluestem, Yellowledge .....	13
Barley, Little .....	50	Boltonia, Panicled .....	19
Barnyardgrass .....	38	Boltonia, Violet .....	19
Basswood .....	103	Box, Common .....	22
Beakgrain, American .....	37	Boxelder .....	7
Bean .....	73	Boysenberry .....	90

Bristlegrass, Yellow	93	Centaurea, Basketflower	26
Brome	21	Centipedegrass	40
Brome, Canada	21	Ceratostigma, Blue	26
Brome, Cheatgrass	21	Chard, Swiss	18
Brome, Chess	21	Chastetree, Lilac	111
Brome, Hairy	21	Cherry	81
Brome, Mountain	21	Cherry, Bessey	80
Brome, Rescue	21	Cherry, Black	81
Brome, Smooth	21	Cherry, Sour	80
Brome, Texas	21	Cherry, Western Sand	80
Broomcorn	99	Chestnut	25
Broomsedge	13	Chickweed	101
Brunnera, Heartleaf	11	China-aster, Common	23
Buckeye, Ohio	8	Chinaberry	66
Buckeye, Red	8	Chinafir, Common	33
Buckeye, Yellow	8	Chinkapin, Allegany	25
Buckthorn, Common	87	Chinkapin, Water	68
Buffalogourd	33	Chinkerichee, Golden	
Buffalograss	21	Cape	70
Buffalograss, False	67	Chokeberry	16
Bugleweed, American	62	Chrysanthemum	28
Bulrush, American	92	Chrysanthemum,	
Bumelia, Gum	22	Florists	28
Bumelia, Woolybucket	22	Chrysanthemum,	
Burclover, California	64	Marguerite	28
Buttonbush, Common	26	Chrysanthemum,	
Buttonweed, Rough	37	Pyrenees	28
Cabbage	20	Clematis	29
Camellia, Common	23	Clematis, Pitchers	29
Canarygrass, Carolina	72	Clover	104
Canarygrass, Timothy	72	Clover, Alsike	104
Cane, Giant	16	Clover, Carolina	104
Canna, India	23	Clover, Low Hop	104
Cardinalflower	60	Clover, Red	104
Carnation	37	Club, Hercules'	113
Carpetgrass, Tropical	18	Cocklebur	112
Carrionflower	101	Cocklebur, Great	112
Carrot	35	Cocklebur, Italian	112
Catalpa, Northern	25	Cocklebur, Oriental	112
Catalpa, Southern	25	Cockscomb	26
Cattail, Common	106	Cockscomb, Feather	26
Cauliflower	20	Coffeetree, Kentucky	48
Cedar	55	Coleus	30
Cedar, Pfitzer	55	Columbine	14
Celery, Garden	14	Comandra, Common	30
Celtuce	57	Coneflower, Claspings	91

Copperleaf, Hophornbeam	7	Daisy, Transvaal	45
Copperleaf, Slender	7	Dalea, Slender	35
Coralberry, Indian- currant	102	Dandelion, Common	102
Cordgrass, Alkali	99	Datura, Jimsonweed	35
Cordgrass, Prairie	99	Datura, Sacred	35
Coreopsis, Bigflower	31	Dayflower, Virginia	30
Coreopsis, Plains	31	Daylily	49
Coreopsis, Threadleaf	31	Deadnettle, Henbit	57
Corktree, Amur	74	Deathcamas, Nuttall	114
Corn	113	Deervetch, Spanishclover	61
Cornbind, Hedge	78	Deutzia, Lemoine	36
Cornflower	26	Dewberry	90
Cornsalad, Beaked	108	Dianthera	36
Corydalis	31	Dianthera, American	36
Cotton, Asiatic Tree	46	Dock, Curly	91
Cotton, Australian	48	Dock, Pale	91
Cotton, Levant	46	Dock, Veiny	91
Cotton, Peruvian	48	Dogbane, Hemp	14
Cotton, Seaisland	46	Dogbane, Prairie	14
Cotton, Upland	46	Dogbane, Spreading	14
Cottonwood	79	Dogwood, Redosier	31
Cowpea, Catjang	110	Dogwood, Roughleaf	31
Cowpea, Common	110	Dracaena, Fragrant	38
Crabapple, Prairie	63	Dropseed, Hidden	101
Crabapple, Siberian	63	Dropseed, Meadow Tall	101
Crabgrass, Hairy	37	Dropseed, Poverty	101
Cranberry, High Bush	109	Dropseed, Prairie	101
Cranberrybush, Euro- pean	109	Dropseed, Puffsheath	101
Crapemyrtle, Common	57	Dropseed, Sand	101
Creeper, Japanese	71	Dropseed, Tall	100
Creeper, Virginia	71	Dwarf dandelion	56
Crotalaria	32	Echinacea, Blacksamson	38
Crotalaria, Showy	32	Eggplant, Garden	95
Croton, Single Fruited	32	Elder	92
Croton, Texas	32	Elder, American	92
Croton, Wooly	32	Elephantsfoot	39
Cucumber	32	Elm	107
Cucumbertree	62	Elm, American	106
Currant, Clove	88	Elm, Cedar	107
Currant, Golden	88	Elm, Siberian	107
Cushaw	33	Elm, Slippery	107
Cycas	33	Elm, Weeping	107
Cyclamen	33	Elm, Winged	106
Dahlia	35	Emmer	106
		Euonymus	41
		Euonymus, Bigleaf	

Wintercreeper .....	40	Firethorn .....	83
Eupatorium, Late .....	41	Firethorn, Laland .....	83
Eupatorium, Mistflower .....	41	Flatsedge, Chufa .....	34
Euphorbia, Flowering-spurge .....	41	Flatsedge, Nutgrass .....	34
Euphorbia, Hairy Spreading .....	41	Flatsedge, Schweinitz .....	34
Euphorbia, Narrow-seeded .....	41	Flatsedge, Slender .....	34
Euphorbia, Reticulate-seeded .....	41	Flatsedge, Straw-colored .....	35
Euphorbia, Snow-on-the-mountain .....	41	Flax, Common .....	60
Euphorbia, Spotted .....	41	Fleabane, Daisy .....	40
Euphorbia, Toothed .....	41	Fleabane, Horseweed .....	40
Eveningprimrose .....	69	Floweringquince .....	27
Eveningprimrose, Common .....	69	Fogfruit .....	60
Eveningprimrose, Cutleaf .....	69	Forsythia .....	42
Eveningprimrose, Oklahoma .....	69	Forsythia, Border .....	42
Eveningprimrose, Pale .....	69	Forsythia, Greenstem .....	42
Eveningprimrose, Rhombicpetaled .....	69	Foxtail, Carolina .....	10
Eveningprimrose, Serrateleaf .....	69	Foxtail, Water .....	10
Eveningprimrose, Showy .....	69	Fringetree, White .....	27
Falsedandelion, Leafystem .....	83	Fuchsia .....	44
Falsedandelion, Rough .....	84	Gaillardia .....	44
Falseflax, Bigseed .....	23	Gaillardia, Common .....	44
Falseflax, Littlepod .....	23	Gaillardia, Perennial .....	44
Falsegarlic, Yellow .....	68	Gaillardia, Showy .....	44
Falsehellebore, Woods .....	108	Gamagrass, Eastern .....	105
Fescue, Meadow .....	42	Gardenia .....	44
Fescue, Texas .....	42	Gaura, Biennial .....	44
Fig, Common .....	42	Gaura, Scarlet .....	44
Fig, Florida Strangler .....	42	Gaura, Wavyleaf .....	44
Fig, Indian Rubber .....	42	Gayfeather, Dotted .....	59
Figwort, Maryland .....	93	Gayfeather, Tall .....	59
Filbert, American .....	31	Geranium, Carolina .....	45
Filbert, Beaked .....	31	Gerbera, Flameray .....	45
Fingergrass, Slender .....	37	Germander, American .....	103
		Giantreed .....	16
		Gladiolus .....	45
		Globeamaranth .....	46
		Globeamaranth, Common .....	46
		Globemallow, Scarlet .....	100
		Glorybind, European .....	30
		Goatgrass, Jointed .....	8
		Goldaster .....	28
		Goldenraintree, Panicked .....	56
		Goldenrod .....	97
		Goldenrod, Grassleaf .....	97
		Goldenrod, November .....	97
		Goldenweed .....	14
		Goldstargrass, Common .....	51

Gooseberry	88	Hickory, Black	25
Goosefoot	27	Hickory, Mockernut	24
Goosefoot, Lambs-		Hickory, Pignut	24
quarters	27	Hickory, Shagbark	25
Goosefoot, Mapleleaf	27	Hoarhound, Common	64
Goosegrass	39	Holly	52
Gourd, Missouri	33	Holly, American	52
Grama, Blue	19	Hollyhock	10
Grama, Hairy	20	Honeylocust, Common	45
Grama, Sideoats	19	Honeysuckle	61
Grama, Texas	20	Honeysuckle, Buckthorn	61
Grape	112	Honeysuckle, Ever-	
Grape, Bird	111	blooming	60
Grape, Sand	111	Hoptree, Common	83
Grape, Sweet Winter	111	Hornbeam, American	24
Grape, Winter	111	Horsechestnut, Common	8
Grapefruit	29	Horsegentian, Common	104
Grass, Corn	70	Horsenettle, Carolina	95
Grass, Deer Tongue	70	Horseradish	16
Greenbrier	94	Huckleberry	45
Greenbrier, Bristly	94	Hyacinth	51
Greenbrier, Carrion-		Hydrangea, Bigleaf	51
flower	94	Hydrangea, Smooth	51
Greenbrier, Cat	94	Hymenopappus, White-	
Greenbrier, Common	94	bract	51
Greenbrier, Lanceleaf	94	Ingiangrass, Yellow	97
Greenbrier, Long-stalked	94	Indianwheat, Bottle-	
Greenbrier, Saw	94	brush	76
Groundcherry	75	Indianwheat, Woolly	76
Groundcherry, Cutleaf	75	Iris	54
Groundcherry, Prairie	75	Iris, Blueflag	53
Groundcherry, Velvety	75	Ironweed	109
Groundcherry,		Ironweed, Baldwin	109
Virginia	75	Ironweed, Bur	109
Guar	33	Ironweed, Missouri	109
Hackberry	26	Ironweed, Western	109
Hackberry, Common	26	Ivy, Boston	71
Hackberry, Netleaf	26	Ivy, English	49
Hardinggrass	72	Ivy, Poison	87
Hawthorn	31	Jackintheulpit, Common	15
Hawthorn, Green	31	Jackintheulpit,	
Heliotrope	49	Dragonroot	15
Heliotrope, Salt	49	Jasmine, Italian	54
Hemp, Indian	14	Jasmine, Showy	54
Hibiscus, Chinese	50	Jasmine, Winter	54
Hickory, Bitternut	24	Johnsongrass	98

Jointtail, Carolina	64	Macrocalyx	39
Jujube, Common	114	Magnolia	62
Junegrass, Prairie	56	Mallow, Running	64
Juniper	55	Mannagrass, Fowl	45
Juniper, Mexican	55	Maple	7
Juniper, Oneseed	55	Maple, Red	7
Juniper, Rockymountain	55	Maple, Silver	7
Knotweed	78	Maple, Sugar	7
Knotweed, Hedge	78	Mayapple, Common	77
Knotweed, Prostrate	78	Medic, Black	64
Kudzu	83	Melic, Threeflower	66
Laburnum, Goldenchain	56	Milkweed, Butterfly	16
Ladysthumb, Curltop	78	Milkweed, Oblongleaved	17
Larkspur	36	Milkweed, Showy	16
Laurelcherry, Carolina	80	Millet, Foxtail	93
Lavender	58	Mimosa	66
Lespedeza	59	Mockorange, Big Scentless	74
Lespedeza, Creeping	58	Mockorange, Lemoine	74
Lespedeza, Hairy	58	Mockorange, Sweet	74
Lespedeza, Slender	58	Monolepis, Nuttall	67
Lespedeza, Stuves	58	Moonseed, Carolina	30
Lespedeza, Trailing	58	Morningglory	53
Lespedeza, Violet	58	Morningglory, Bigroot	53
Lespedeza, Wand	58	Morningglory, Common	53
Lettuce, Canada	57	Morningglory, Ivyleaf	53
Lettuce, Garden	57	Mountainash, American	97
Lilac, Common	102	Mountainmint, Hairy	83
Lilac, Persian	102	Muhly, Green	67
Lily, Caucasian	59	Muhly, Hairawn	67
Lily, Regal	59	Muhly, Rock	67
Linden, American	103	Muhly, Wirestem	67
Lionsheart, Virginia	75	Mulberry	67
Lobelia, Bigblue	60	Mulberry, French	22
Lobelia, Downy	60	Mulberry, Red	67
Locust, Black	88	Mulberry, White	67
Locust, Roseacacia	88	Mullein, Moth	108
Loganberry	90	Muskmelon	32
Lomatium	60	Mustard	20
Lomatium, Carrot- leaved	60	Mustard, Tumble	94
Lopseed, American	74	Nandina	68
Lotus, American	68	Narcissus	68
Lovegrass, Carolina	40	Nasturtium, Common	106
Lovegrass, India	40	Nectarine	81
Lovegrass, Purple	40	Needleandthread	102
Lovegrass, Red	40	Nettle, Weaksting	108
Lovegrass, Sand	40	Nimblewill	67
		Ninebark, Common	75

Ninebark, Twinpod	75	Perovskia, Russiansage	72
Oak	86	Persimmon, Common	37
Oak, Blackjack	85	Persimmon, Japanese	37
Oak, Bur	85	Petunia, Common	72
Oak, Chinkapin	85	Phlox	74
Oak, Pin	85	Phlox, Downy	74
Oak, Poison	87	Photinia	74
Oak, Post	85	Pine	76
Oak, Scarlet	84	Pine, Austrian	75
Oak, Southern Red	85	Pine, Shortleaf	75
Oak, Threelobe Red	85	Piqueria, Fragrant	76
Oak, Water	85	Planetree, American	77
Oak, White	84	Plantain, Indian	22
Oat, Common	17	Plantain, Manyseeded	76
Okra	49	Plantain, Paleseed	76
Onion, Garden	9	Plantain, Rippleseed	76
Orange, Hardy	29	Plum	82
Orchardgrass	35	Plum, American	79
Orchid	40	Plum, Chickasaw	79
Oregongrape	62	Plum, Ground	17
Oxalis, Creeping	70	Plum, Wildgoose	80
Pagodatree, Japanese	97	Poinciana, Paradise	77
Panicum, Tennessee	70	Poinsettia, Common	41
Panicum, Texas	70	Pokeberry, Common	75
Panicum, Variable	70	Polypogon, Rabbitfoot	78
Papermulberry, Common	21	Poplar	79
Parsley, Common Garden	72	Poplar, Bolleana	78
Parsnip, Garden	71	Poplar, Eastern	79
Paspalum	71	Poplar, Lombardy	79
Paspalum, Sand	71	Poplar, Narrowleaf	78
Passionflower, Maypop	71	Poplar, Plains	79
Pea, Austrian Winter	76	Poplar, White	78
Pea, Field	76	Poppymallow, Finger	22
Pea, Garden	76	Poppymallow, Low	22
Peach	80	Possumhaw	52
Peanut	14	Potato	95
Pear, Common	84	Prairieclover, Purple	72
Peashrub, Siberian	24	Prairieclover, Slender	
Pecan	24	White	72
Pecan, Bitter	25	Pricklepoppy, Mexican	15
Penstemon, Cobaea	71	Pricklyash, Common	113
Penstemon, James	71	Pricklypear, Common	69
Penstemon, Pale	72	Privet	59
Peony	70	Privet, Amur	59
Pepper	23	Privet, California	59
Peppervine	11	Privet, European	59
Pepperweed, Virginia	58	Privet, Ibolium	59

Pumpkin	33	Sagebrush, Cudweed	16
Puncturevine	103	Sagebrush, Louisiana	16
Purpletop	104	Sagebrush, Mexican	16
Purslane, Common	79	Salsify, Vegetable-	
Pussytoes, Plantainleaf	13	oyster	103
Pussywillow	91	Saltgrass, Inland	38
Pyracantha	83	Saltgrass, Seashore	38
Quackgrass	8	Sandbur, Mat	26
Quince, Common	34	Sandgrass, Purple	104
Radish, Garden	86	Sandreed, Big	22
Radish, White Icicle	87	Sandreed, Prairie	22
Ragweed	11	Sassafrass, Common	92
Ragweed, Common	11	Surfpea, Digitate	83
Ragweed, Giant	11	Scurfpea, Slimflower	83
Ragweed, Western	11	Scurfpea, Tallbread	83
Raspberry	90	Sedge	34
Raspberry, Black	89	Sedge, Bicknell	24
Raspberry, Red	89	Sedge, Fox	24
Redbud, Eastern	27	Seedbox	61
Redcedar, Canaert		Shepherdspurse	23
Eastern	55	Shootingstar, Common	38
Redcedar, Eastern	55	Shrubalthea	50
Redcedar, Globe Eastern	55	Silene, Sleepy	93
Redcedar, Pyramidal		Silverbell, Mountain	48
Eastern	55	Silverberry	38
Redcedar, Silver Eastern	55	Skullcap, Hyssop	93
Redtop	9	Skullcap, Small	93
Redtop, Tall	104	Smartweed, Dotted	78
Reed, Common	74	Smartweed, Pennsylvania	78
Rhododendron	87	Smoketree, Common	31
Rhubarb, Garden	87	Snailseed, Carolina	30
Rockcress, Smooth	14	Snakeweed, Broom	48
Rose	88	Snakeweed, Tarragon	48
Rosegentian, Prairie	91	Snappedragon, Common	13
Rose-of-sharon	50	Snowball, Japanese	110
Rosinweed	14	Snowberry	102
Rubberplant	42	Soapberry, Western	92
Ruellia, Limestone	91	Soapweed, Small	113
Russianolive	38	Solomonplume, Feather	94
Rye	93	Sophora, Texas	97
Ryegrass, Italian	60	Sorghum	98
Ryegrass, Perennial	60	Sorrel, Heartwing	91
Sacaton, Alkali	100	Sowthistle, Prickly	97
Safflower	24	Soybean	95
Sage, Azure	92	Speedwell, Purslane	109
Sage, Lanceleaf	92	Spelt	106
Sage, Pitchers	92	Spiderflower, Bee	30

Spiderflower, Yellow	30	Threeawn, Curly	15
Spikenard, False	94	Threeawn, Curtiss	15
Spikerush, Slender		Threeawn, Forktip	15
Umbelled	42	Threeawn, Prairie	15
Spikerush, Vahl Umbelled	42	Threeawn, Purple	15
Spikesedge, Blunt	38	Threeawn, Slimspike	15
Spikesedge, Slender	38	Tickclover	36
Spinach	100	Tickclover, Hoary	36
Spinach, New Zealand	103	Tickclover, Maryland	36
Spirea, Japanese	100	Tickclover, Panicked	36
Sprangletop, Red	58	Tickclover, Sessile	36
Spruce	75	Timothy	74
Squash, Winter	33	Tithonia, Scarlet	103
Starglory, Scarlet	84	Toadflax, Oldfield	59
Stenosiphon, Flaxleaf	101	Tobacco, Common	68
Stillingia, Queensdelight	101	Tomato, Common	61
Strawberry	42	Torchlily, Hotpoker	56
Strawberry, Virginia	42	Tragia, Catnip-leaved	103
Sudangrass	99	Treadsoftly, Texas	30
Sumac, Fragrant	87	Treebine, Ivy	28
Sumac, Skunkbrush	87	Trillium, Prairie	104
Sumac, Smooth	87	Triodia, Longspike	104
Sundrops, Ozark	69	Triodia, Rough	104
Sunflower	49	Triodia, White	104
Sunflower, Ashy	49	Tuftroot, Variable	37
Sunflower, Common	49	Tulip	106
Sunflower, Jerusalem-		Turnip	20
artichoke	49	Uniola, Broadleaf	108
Sunflower, Prairie	49	Venuslookingglass,	
Sunflower, Stiff	49	Clasping	100
Sunflower, Stiffhaired	49	Venuslookingglass,	
Sweetclover, White	66	Small	99
Sweetclover, Yellow	66	Verbena	109
Sweetgum, American	60	Verbena, Bigbract	109
Sweetpea	57	Verbena, Rose	109
Sweetpea, Perennial	57	Verbena, White	109
Sweetpotato	52	Verbena, Wooly	109
Switchgrass	71	Vetch, American	110
Sycamore	77	Vetch, Hairy	110
Tansymustard	36	Viburnum	110
Tansymustard, Pinnate	36	Viburnum, Doublefile	110
Teosinte	40	Viburnum, Rusty Black-	
Tephrosia, Virginia	102	haw	110
Thistle	28	Vine, Wild Potato	53
Thistle, Field	28	Vine-mesquite	70
Threeawn, Arrowfeather	15	Violet	111
Threeawn, Churchmouse	15	Violet, Butterfly	111

Violet, Missouri	111	Wildbean, Trailing	102
Virginsbower	29	Wildindigo, Blue	18
Wahoo	106	Wildindigo, Cream	18
Wallflower, Common	27	Wildrye, Blue	39
Walnut, Eastern Black	54	Wildrye, Canada	39
Walnut, Persian	54	Wildrye, Hairy	39
Watercress	88	Wildrye, Russian	39
Waterhemlock, Spotted	28	Wildrye, Virginia	39
Waterhemp	8	Willow	92
Waterhyssop	18	Willow, Black	92
Waterlily, American	68	Willow, Coastalplain	92
Watermelon	29	Willow, Sandbar	92
Waterprimrose	56	Windmillgrass, Tumble	27
Waterprimrose, Floating	56	Wistaria	112
Waxmyrtle, Southern	68	Witchgrass, Common	70
Wedgescale, Prairie	100	Witchgrass, Fall	58
Wedgescale, Slender	100	Witchhazel, Common	48
Wheat	105	Wolfberry, Pale	61
Wheatgrass, Beardless		Woodnettle, Canada	57
Bluebunch	8	Woodsorrel, Slender	
Wheatgrass, Bluestem	8	Yellow	70
Wheatgrass, Crested	8	Woodsorrel, Violet	70
Wheatgrass, Slender	9	Yarrow, Common	7
Wheatgrass, Stiffhair	9	Yellowwood, American	29
Wheatgrass, Tall	8	Youngberry	91
Wheatgrass, Thickspike	8	Yucca, Adamsneedle	113
Wildbean, Small	102	Zinnia, Common	114



